

PREDICTION OF
STENOGRAPHIC SUCCESS

CALLANAN

SECTION 2

SUPPLEMENT

L I B R A R Y

B O S T O N
U N I V E R S I T Y



 COLLEGE 
BUSINESS
ADMINISTRATION

Class No.	*371.26	
Book No.	C13	V. 2
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Exercise 10.1

Exercise 10.2

Exercise 10.3

PREDICTION OF STENOGRAPHIC SUCCESS

Exercise 10.4

Supplement

Exercise 10.5

Exercise 10.6

7-12-39
22689
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V. 2

1001

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Section 2

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APPENDIX A

Correlations of Tests with Each Other

1880

Comptroller of the Treasury

PRODUCTS MOMENTS

	Criterion and Terman 1				Criterion and Terman 2			
	Criterion Deviation	Terman 1 Deviation	Product		Criterion Deviation	Terman 2 Deviation	Product	
			/	-			/	-
Adcock	/ 7	/ 1	7		/ 7	/ 3	21	
Annunziata	-16	- 2	32		-16	- 9	144	
Ballantine	/15	/ 3	45		/15	/ 1	15	
Belkin	/12	/ 1	12		/12	/ 1	12	
Cardillo	- 7	- 1	7		- 7	- 3	21	
Corson	/16	/ 1	16		/16	- 1		16
Cunniffe	- 1	/ 3		3	- 1	- 1	1	
DeMarco	/ 1	/ 1	1		/ 1	/ 1	1	
Gibson	-14	- 2	28		-14	/ 3		42
Giordano	-12	- 3	36		-12	- 3	36	
Greene	- 9	/ 2		18	- 9	/ 3		27
Haley	/ 5	- 4		20	/ 5	/ 1	5	
Hebert	- 5	/ 2		10	- 5	/ 3		15
LaChapelle	/ 1	- 2		2	/ 1	/ 1	1	
Lyden	- 2	- 1	2		- 2	/ 3		6
MacDougal	/ 7	0			/ 7	/ 1	7	
McCauley	- 1	0			- 1	/ 3		3
McIntosh	/ 4	0			/ 4	/ 1	4	
Spencer	/12	- 1		12	/12	/ 1	12	
Stebner	-21	- 4	84		-21	- 3	63	
Uhlin	/ 2	0			/ 2	/ 3	6	
			/270	-65			/349	-109
			- 65				-109	
			/205				/240	

CORRELATION

$$\frac{205}{21 \times 10.02 \times 2.02} = .48$$

$$\frac{240}{21 \times 10.02 \times 2.94} = .388$$

1888			1889		
Jan	Feb	Mar	Jan	Feb	Mar
1	2	3	1	2	3
4	5	6	4	5	6
7	8	9	7	8	9
10	11	12	10	11	12
13	14	15	13	14	15
16	17	18	16	17	18
19	20	21	19	20	21
22	23	24	22	23	24
25	26	27	25	26	27
28	29	30	28	29	30
31			31		
1	2	3	1	2	3
4	5	6	4	5	6
7	8	9	7	8	9
10	11	12	10	11	12
13	14	15	13	14	15
16	17	18	16	17	18
19	20	21	19	20	21
22	23	24	22	23	24
25	26	27	25	26	27
28	29	30	28	29	30
31			31		
1	2	3	1	2	3
4	5	6	4	5	6
7	8	9	7	8	9
10	11	12	10	11	12
13	14	15	13	14	15
16	17	18	16	17	18
19	20	21	19	20	21
22	23	24	22	23	24
25	26	27	25	26	27
28	29	30	28	29	30
31			31		

PRODUCTS MOMENTS

	Criterion and Terman 3				Criterion and Terman 4			
	Criterion Deviation	Terman 3 Deviation	Product		Criterion Deviation	Terman 4	Product	
			/	-			/	-
Adcock	/ 7	/10	70		/ 7	/ 6	42	
Annunziata	-16	-18	288		-16	-10	160	
Ballantine	/15	/ 8	120		/15	- 1		15
Belkin	/12	/ 2	24		/12	- 7		84
Cardillo	- 7	-14	98		- 7	- 3	21	
Corson	/16	/ 6	96		/16	/ 3	48	
Cunniffe	- 1	/ 6		6	- 1	/ 3		3
DeMarco	/ 1	0			/ 1	- 3		3
Gibson	-14	/ 2		28	-14	/ 1		14
Giordano	-12	-14	168		-12	- 5	60	
Greene	- 9	/ 2		18	- 9	/ 6		54
Haley	/ 5	-14		70	/ 5	- 2		10
Hebert	- 5	/ 8		40	- 5	/ 2		10
LaChapelle	/ 1	/10	10		/ 1	/ 1	1	
Lyden	- 2	/ 2		4	- 2	- 2	4	
MacDougal	/ 7	- 2		14	/ 7	/ 1	7	
McCauley	- 1	/ 6		6	- 1	/ 2		2
McIntosh	/ 4	-10		40	/ 4	- 2		8
Spencer	/12	/ 6	72		/12	/ 5	60	
Stebner	-21	- 6	126		-21	0		
Uhlin	/ 2	/ 6	12		/ 2	- 2		4
			/1084	-226			/403	-207
			- 226				-207	
			/ 858				/196	

CORRELATION

$$\frac{858}{21 \times 10.02 \times 8.66} = / .477$$

$$\frac{196}{21 \times 10.02 \times 3.99} = / .233$$

1. The first part of the report is a general statement of the work done during the year.

2. The second part is a detailed account of the work done in each of the several departments.

3. The third part is a summary of the work done in each of the several departments.

4. The fourth part is a summary of the work done in each of the several departments.

5. The fifth part is a summary of the work done in each of the several departments.

6. The sixth part is a summary of the work done in each of the several departments.

7. The seventh part is a summary of the work done in each of the several departments.

8. The eighth part is a summary of the work done in each of the several departments.

9. The ninth part is a summary of the work done in each of the several departments.

10. The tenth part is a summary of the work done in each of the several departments.

PRODUCTS MOMENTS

	Criterion and Terman 5				Criterion and Terman 6			
	Criterion Deviation	Terman 5 Deviation	Product		Criterion Deviation	Terman 6 Deviation	Product	
			+	-			+	-
Adcock	✓ 7	✓ 1	7		✓ 7	✓ 9	63	
Annunziata	-16	- 7	112		-16	- 3	48	
Ballantine	✓15	✓ 5	75		✓15	✓ 5	75	
Belkin	✓12	✓ 3	36		✓12	✓ 1	12	
Cardillo	- 7	- 7	49		- 7	✓ 3		21
Corson	✓16	- 5		80	✓16	✓11	176	
Cunniffe	- 1	✓ 5		5	- 1	✓ 7		7
DeMarco	✓ 1	✓ 7	7		✓ 1	✓ 1	1	
Gibson	-14	- 5	70		-14	- 5	70	
Giordano	-12	✓ 7		84	-12	- 5	60	
Greene	- 9	✓ 3		27	- 9	✓ 7		63
Haley	✓ 5	✓ 1	5		✓ 5	-11		55
Hebert	- 5	✓ 3		15	- 5	✓ 3		15
LaChapelle	✓ 1	- 3		3	✓ 1	- 1		1
Lyden	- 2	✓ 1		2	- 2	- 1	2	
MacDougal	✓ 7	- 5		35	✓ 7	- 7		49
McCauley	- 1	- 5	5		- 1	✓ 3		3
McIntosh	✓ 4	- 5		20	✓ 4	- 9		36
Spencer	✓12	- 3		36	✓12	✓ 3	36	
Stebner	-21	- 1	21		-21	-11	231	
Uhlin	✓ 2	✓ 5	10		✓ 2	✓ 1	2	
			✓397	-307			✓ 776	-250
			-307				- 250	
			✓ 90				✓ 526	

CORRELATION

90

$$\frac{21 \times 10.02 \times 4.60}{21 \times 10.02 \times 4.60} = \checkmark .093$$

526

$$\frac{526}{21 \times 10.02 \times 6.16} = \checkmark .406$$

PRODUCTS MOMENTS

	Criterion and Terman 7				Criterion and Terman 8			
	Criterion Deviation	Terman 7 Deviation	Product		Criterion Deviation	Terman 8 Deviation	Product	
			/	-			/	-
Adcock	/ 7	/ 1	7		/ 7	/ 7	49	
Annunziata	-16	- 9	144		-16	- 3	48	
Ballantine	/15	0			/15	/ 3	45	
Belkin	/12	/ 2	24		/12	- 1		12
Cardillo	- 7	/ 1		7	- 7	/ 1		7
Corson	/16	/ 2	32		/16	/ 1	16	
Cunniffe	- 1	/ 4		4	- 1	/ 5		5
DeMarco	/ 1	- 1		1	/ 1	- 9		9
Gibson	-14	0			-14	- 1	14	
Giordano	-12	- 8	96		-12	/ 1		12
Greene	- 9	/ 2		18	- 9	/ 1		9
Haley	/ 5	0			/ 5	- 1		5
Hebert	- 5	- 2	10		- 5	- 1	5	
LaChapelle	/ 1	0			/ 1	- 3		3
Lyden	- 2	- 1	2		- 2	- 3	6	
MacDougal	/ 7	/ 1	7		/ 7	- 1		7
McCauley	- 1	- 1	1		- 1	/ 5		5
McIntosh	/ 4	- 1		4	/ 4	/ 7	28	
Spencer	/12	/ 3	36		/12	/ 9	108	
Stebner	-21	/ 2		42	-21	- 9	189	
Uhlin	/ 2	/ 1	2		/ 2	/ 1	2	
			/361	-76			/ 510	-74
			- 76				- 74	
			/285				/436	

CORRELATION

$$\frac{285}{21 \times 10.02 \times 3.07} = / .441$$

$$\frac{436}{21 \times 10.02 \times 4.56} = / .45$$

PRODUCTS MOMENTS

	Criterion and Terman 9				Criterion and Terman 10			
	Criterion Deviation	Terman 9 Deviation	Product		Criterion Deviation	Terman 10 Deviation	Product	
			/	-			/	-
Adcock	/ 7	/ 1	7		/ 7	- 2		14
Annunziata	-16	- 2	32		-16	-12	192	
Ballantine	/15	/ 1	15		/15	/ 2	30	
Belkin	/12	- 3		36	/12	/ 4	48	
Cardillo	- 7	- 2	14		- 7	- 4	28	
Corson	/16	/ 2	32		/16	- 6		96
Cunniffe	- 1	/ 2		2	- 1	0		
DeMarco	/ 1	0			/ 1	/ 2	2	
Gibson	-14	/ 1		14	-14	- 4	56	
Giordano	-12	- 1	12		-12	/ 2		24
Greene	- 9	/ 1		9	- 9	0		
Haley	/ 5	/ 2	10		/ 5	0		
Hebert	- 5	0			- 5	- 4	20	
LaChapelle	/ 1	- 1		1	/ 1	0		
Lyden	- 2	- 2	4		- 2	/ 2		4
MacDougal	/ 7	0			/ 7	/ 6	42	
McCauley	- 1	0			- 1	0		
McIntosh	/ 4	0			/ 4	0		
Spencer	/12	/ 3	36		/12	/ 4	48	
Stebner	-21	0			-21	/ 4		84
Uhlin	/ 2	0			/ 2	- 4		8
			/162	-62			/466	-230
			- 62				-230	
			/100				/236	

CORRELATION

$$\frac{100}{21 \times 10.02 \times 1.51} = /.315$$

$$\frac{236}{21 \times 10.02 \times 4.07} = /.276$$

PRODUCTS MOMENTS

	Criterion and Hoke 1				Criterion and Hoke 2			
	Criterion Deviation	Hoke 1 Deviation	Product		Criterion Deviation	Hoke 2 Deviation	Product	
			/	-			/	-
Adcock	/ 7	- 1		7	/ 7	/ 3	21	
Annunziata	-16	/12		192	-16	/13		208
Ballantine	/15	0			/15	- 8		120
Belkin	/12	0			/12	/13	156	
Cardillo	- 7	/ 3		21	- 7	/ 7		49
Corson	/16	/ 9	144		/16	- 9		144
Cunniffe	- 1	- 2	2		- 1	- 8	8	
DeMarco	/ 1	- 2		2	/ 1	- 3		3
Gibson	-14	/ 1		14	-14	/ 1		14
Giordano	-12	- 2	24		-12	/ 5		60
Greene	- 9	0			- 9	- 3	27	
Haley	/ 5	/ 2	10		/ 5	- 9		45
Hebert	- 5	- 4	20		- 5	/10		50
LaChapelle	/ 1	- 1		1	/ 1	/ 9	9	
Lyden	- 2	/ 8		16	- 2	- 8	16	
MacDougal	/ 7	/ 6	42		/ 7	- 4		28
McCauley	- 1	/ 9		9	- 1	/ 9		9
McIntosh	/ 4	- 3		12	/ 4	- 3		12
Spencer	/12	-18		216	/12	- 6		72
Stebner	-21	-20	420		-21	/ 3		63
Uhlin	/ 2	/ 1	2		/ 2	- 7		14
			/ 664	-490			/ 237	-891
			- 490				/237	
			/ 174					-654

CORRELATION $\frac{174}{21 \times 10.02 \times 7.51} = .11$

$\frac{654}{21 \times 10.02 \times 7.48} = -.416$

733-

433-

24

84.7

PRODUCTS MOMENTS

	Criterion and Hoke 3				Criterion and Hoke 4			
	Criterion Deviation	Hoke 3 Deviation	Product		Criterion Deviation	Hoke 4 Deviation	Product	
			/	-			/	-
Adcock	/ 7	/10	70		/ 7	/21	147	
Annunziata	-16	-18	288		-16	-23	368	
Ballantine	/15	/12	180		/15	/17	255	
Belkin	/12	-13		156	/12	/ 5	60	
Cardillo	- 7	-18	126		- 7	- 1	7	
Corson	/16	/27	432		/16	/ 3	48	
Cunniffe	- 1	/22		22	- 1	/11		11
DeMarco	/ 1	-18		18	/ 1	-11		11
Gibson	-14	- 8	112		-14	-23	322	
Giordano	-12	/10		120	-12	-17	204	
Greene	- 9	/15		135	- 9	/ 3		27
Haley	/ 5	/ 2	10		/ 5	- 1		5
Hebert	- 5	/ 2		10	- 5	- 9	45	
LaChapelle	/ 1	-13		13	/ 1	/ 9	9	
Lyden	- 2	- 8	16		- 2	- 1	2	
MacDougal	/ 7	/ 2	14		/ 7	- 1		7
McCauley	- 1	- 3	3		- 1	/17		17
McIntosh	/ 4	-18		72	/ 4	- 7		28
Spencer	/12	- 3		36	/12	/27	324	
Stebner	-21	/ 2		42	-21	-23	483	
Uhlin	/ 2	/22	44		/ 2	- 1		2
			/1295	-624			/2274	-108
			- 624				- 108	
			/ 671				/2166	

CORRELATION $\frac{671}{21 \times 10.02 \times 13.90} = .723$

$\frac{2166}{21 \times 10.02 \times 14.02} = .734$

1881			1882			Remarks
Jan	Feb	Mar	Jan	Feb	Mar	
1	1	1	1	1	1	
2	2	2	2	2	2	
3	3	3	3	3	3	
4	4	4	4	4	4	
5	5	5	5	5	5	
6	6	6	6	6	6	
7	7	7	7	7	7	
8	8	8	8	8	8	
9	9	9	9	9	9	
10	10	10	10	10	10	
11	11	11	11	11	11	
12	12	12	12	12	12	
13	13	13	13	13	13	
14	14	14	14	14	14	
15	15	15	15	15	15	
16	16	16	16	16	16	
17	17	17	17	17	17	
18	18	18	18	18	18	
19	19	19	19	19	19	
20	20	20	20	20	20	
21	21	21	21	21	21	
22	22	22	22	22	22	
23	23	23	23	23	23	
24	24	24	24	24	24	
25	25	25	25	25	25	
26	26	26	26	26	26	
27	27	27	27	27	27	
28	28	28	28	28	28	
29	29	29	29	29	29	
30	30	30	30	30	30	
31	31	31	31	31	31	

PRODUCTS MOMENTS

	Criterion and Hoke 5				Criterion and Hoke 6			
	Criterion Deviation	Hoke 5 Deviation	Product		Criterion Deviation	Hoke 6 Deviation	Product	
			/	-			/	-
Adcock	/ 7	/16	112		/ 7	/16	112	
Annunziata	-16	-19	304		-16	-28	448	
Ballantine	/15	/ 3	45		/15	/16	240	
Belkin	/12	- 8		96	/12	/20	240	
Cardillo	- 7	-18	126		- 7	/20		140
Corson	/16	/11	176		/16	/ 8	128	
Cunniffe	- 1	/19		19	- 1	/20		20
DeMarco	/ 1	/ 2	2		/ 1	/20	20	
Gibson	-14	- 8	112		-14	-38	532	
Giordano	-12	/ 2		24	-12	0		
Greene	- 9	/ 4		36	- 9	/ 6		54
Haley	/ 5	/24	120		/ 5	-20		100
Hebert	- 5	- 4	20		- 5	-38	190	
LaChapelle	/ 1	- 3		3	/ 1	/16	16	
Lyden	- 2	-18	36		- 2	-18	36	
MacDougal	/ 7	- 2		14	/ 7	/20	140	
McCauley	- 1	/15		15	- 1	/20		20
McIntosh	/ 4	- 6		24	/ 4	-20		80
Spencer	/12	/14	168		/12	-12		144
Stebner	-21	-10	210		-21	-22	462	
Uhlin	/ 2	-18		36	/ 2	/12	24	
			/1431	-267			/2588	-558
			- 267				- 558	

/1164

/2030

CORRELATION

1164

= / .435

2030

= / .47

21x10.02x10.71

21x10.02x20.51

PRODUCTS MOMENTS

	Criterion and Hoke 7				Criterion and Tressler			
	Criterion Deviation	Hoke 7 Deviation	Product		Criterion Deviation	Tressler Deviation	Product	
			/	-			/	-
Adcock	/ 7	/ 7	49		/ 7	/ 5	35	
Annunziata	-16	/ 2		32	-16	-31	496	
Ballantine	/15	/ 8	120		/15	/13	195	
Belkin	/12	/13	156		/12	/13	156	
Cardillo	- 7	/ 1		7	- 7	- 1	7	
Corson	/16	/ 7	112		/16	/ 5	80	
Cunniffe	- 1	/ 4		4	- 1	/17		17
DeMarco	/ 1	-11		11	/ 1	/ 5	5	
Gibson	-14	-10	140		-14	- 9	126	
Giordano	-12	/22		264	-12	-23	276	
Greene	- 9	/ 5		45	- 9	/13		117
Haley	/ 5	- 8		40	/ 5	/16	80	
Hebert	- 5	-61	305		- 5	- 3	15	
LaChapelle	/ 1	/17	17		/ 1	- 6		6
Lyden	- 2	/ 2		4	- 2	-11	22	
MacDougal	/ 7	- 4		28	/ 7	-19		133
McCauley	- 1	/ 9		9	- 1	/21		21
McIntosh	/ 4	- 3		12	/ 4	- 2		8
Spencer	/12	-12		144	/12	/ 8	96	
Stebner	-21	/ 3		63	-21	-10	210	
Uhlin	/ 2	/ 4	8		/ 2	-10		20
			/907	-663			/1799	-322
			-663				- 322	

CORRELATION $\frac{244}{21 \times 10.02 \times 16.09} = \frac{1477}{21 \times 10.02 \times 13.68} = .513$

PRODUCTS MOMENTS

Terman 1 and Terman 2				Terman 1 and Terman 3			
Terman 1 Deviation	Terman 2 Deviation	Product		Terman 1 Deviation	Terman 3 Deviation	Product	
✓ 1	✓ 3	✓	-	✓ 1	✓ 10	✓	-
- 2	- 9	3		- 2	- 18	10	
✓ 3	✓ 1	18		✓ 3	✓ 8	36	
		3				24	
✓ 1	✓ 1	1		✓ 1	✓ 2	2	
- 1	- 3	3		- 1	- 14	14	
✓ 1	- 1		1	✓ 1	✓ 6	6	
✓ 3	- 1		3	✓ 3	✓ 6	18	
✓ 1	✓ 1	1		✓ 1	0		
- 2	✓ 3		6	- 2	✓ 2		4
- 3	- 3	9		- 3	- 14	42	
✓ 2	✓ 3	6		✓ 2	✓ 2	4	
- 4	✓ 1		4	- 4	- 14	56	
✓ 2	✓ 3	6		✓ 2	✓ 8	16	
- 2	✓ 1		2	- 2	✓ 10		20
- 1	✓ 3		3	- 1	✓ 2		2
0	✓ 1			0	- 2		
0	✓ 3			0	✓ 6		
0	✓ 1			0	- 10		
- 1	✓ 1		1	- 1	✓ 6		6
- 4	- 3	12		- 4	- 6	24	
0	✓ 3			0	✓ 6		
		✓ 62	- 20			✓ 252	- 32
		- 20				- 32	
		✓ 42				✓ 220	

CORRELATION

$$\frac{42}{21 \times 2.02 \times 2.94} = \checkmark .34$$

$$\frac{220}{21 \times 2.02 \times 8.66} = \checkmark .60$$

PRODUCTS MOMENTS

Terman 1 and
Terman 4

Terman 1 and
Terman 5

Terman 1 Deviation	Terman 4 Deviation	Product	Terman 1 Deviation	Terman 5 Deviation	Product
✓ 1	✓ 6	6	✓ 1	✓ 1	1
- 2	- 10	20	- 2	- 7	14
✓ 3	- 1	3	✓ 3	✓ 5	15
✓ 1	- 7	7	✓ 1	✓ 3	3
- 1	- 3	3	- 1	- 7	7
✓ 1	✓ 3	3	✓ 1	- 5	5
✓ 3	✓ 3	9	✓ 3	✓ 5	15
✓ 1	- 3	3	✓ 1	✓ 7	7
- 2	✓ 1	2	- 2	- 5	10
- 3	- 5	15	- 3	✓ 7	21
✓ 2	✓ 6	12	✓ 2	✓ 3	6
- 4	- 2	8	- 4	✓ 1	4
✓ 2	✓ 2	4	✓ 2	✓ 3	6
- 2	✓ 1	2	- 2	- 3	6
- 1	- 2	2	- 1	✓ 1	1
0	✓ 1		0	- 5	
0	✓ 2		0	- 5	
0	- 2		0	- 5	
- 1	✓ 5	5	- 1	- 3	3
- 4	0		- 4	- 1	4
0	- 2		0	✓ 5	
		✓ 82 -22			✓ 97 -31
		- 22			- 31
		✓ 60			✓ 66

CORRELATION $\frac{60}{21 \times 2.02 \times 3.99} = \checkmark .35$

$\frac{66}{21 \times 2.02 \times 4.60} = \checkmark .34$

Page 2

Page 2

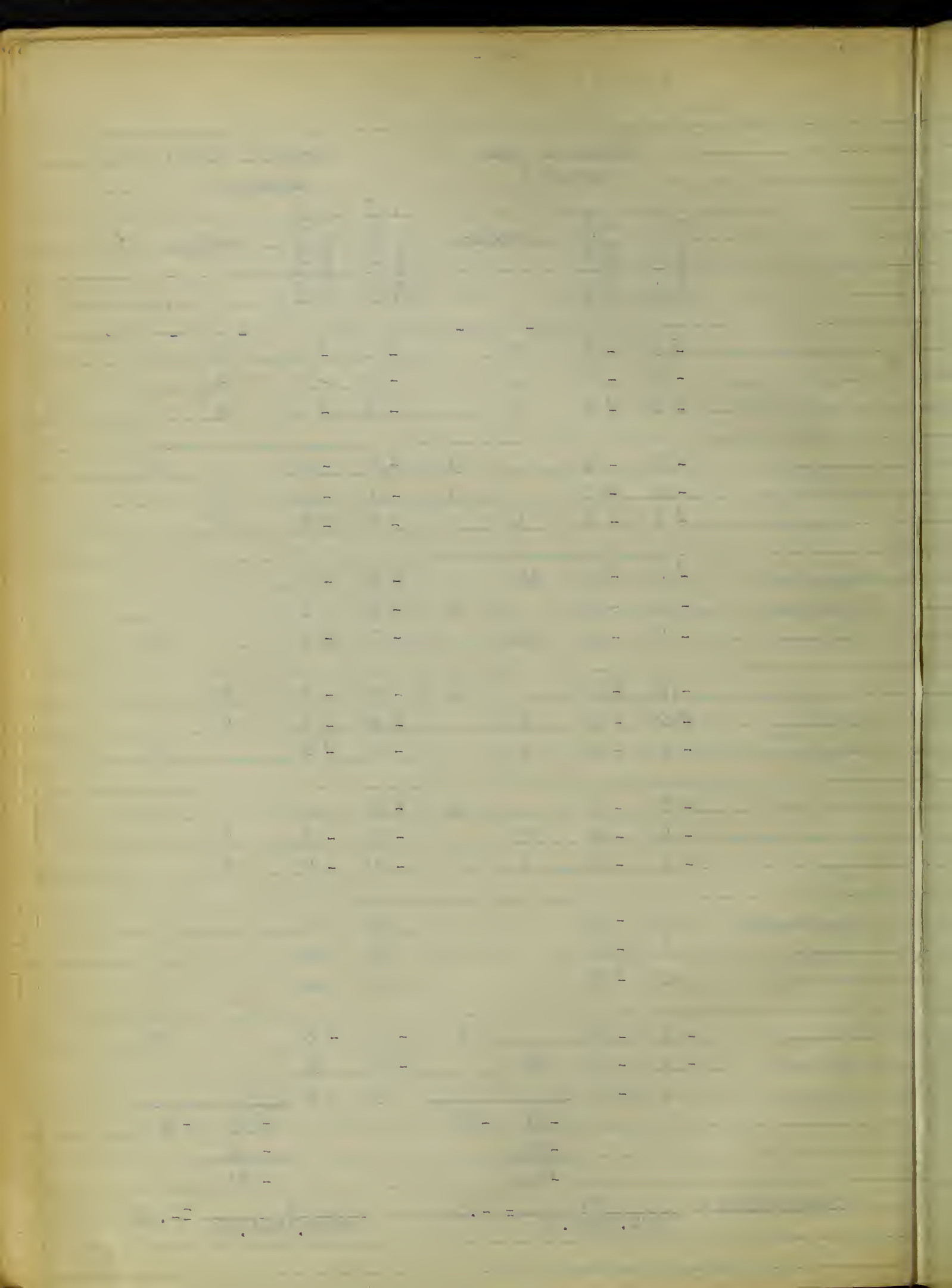
T		S		T		S	
10		11		12		13	
1		1		1		1	
2		2		2		2	
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
7		7		7		7	
8		8		8		8	
9		9		9		9	
10		10		10		10	
11		11		11		11	
12		12		12		12	
13		13		13		13	
14		14		14		14	
15		15		15		15	
16		16		16		16	
17		17		17		17	
18		18		18		18	
19		19		19		19	
20		20		20		20	
21		21		21		21	
22		22		22		22	
23		23		23		23	
24		24		24		24	
25		25		25		25	
26		26		26		26	
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28		28		28		28	
29		29		29		29	
30		30		30		30	
31		31		31		31	
32		32		32		32	
33		33		33		33	
34		34		34		34	
35		35		35		35	
36		36		36		36	
37		37		37		37	
38		38		38		38	
39		39		39		39	
40		40		40		40	
41		41		41		41	
42		42		42		42	
43		43		43		43	
44		44		44		44	
45		45		45		45	
46		46		46		46	
47		47		47		47	
48		48		48		48	
49		49		49		49	
50		50		50		50	
51		51		51		51	
52		52		52		52	
53		53		53		53	
54		54		54		54	
55		55		55		55	
56		56		56		56	
57		57		57		57	
58		58		58		58	
59		59		59		59	
60		60		60		60	
61		61		61		61	
62		62		62		62	
63		63		63		63	
64		64		64		64	
65		65		65		65	
66		66		66		66	
67		67		67		67	
68		68		68		68	
69		69		69		69	
70		70		70		70	
71		71		71		71	
72		72		72		72	
73		73		73		73	
74		74		74		74	
75		75		75		75	
76		76		76		76	
77		77		77		77	
78		78		78		78	
79		79		79		79	
80		80		80		80	
81		81		81		81	
82		82		82		82	
83		83		83		83	
84		84		84		84	
85		85		85		85	
86		86		86		86	
87		87		87		87	
88		88		88		88	
89		89		89		89	
90		90		90		90	
91		91		91		91	
92		92		92		92	
93		93		93		93	
94		94		94		94	
95		95		95		95	
96		96		96		96	
97		97		97		97	
98		98		98		98	
99		99		99		99	
100		100		100		100	

PRODUCTS MOMENTS

Terman 1 and Terman 6				Terman 1 and Terman 7			
Terman 1 Deviation	Terman 6 Deviation	Product		Terman 1 Deviation	Terman 7 Deviation	Product	
/		/	-	/		/	-
Adcock	/ 1	/ 9	9	/ 1	/ 1	1	
Annunziata	- 2	- 3	6	- 2	- 9	18	
Billantine	/ 3	/ 5	15	/ 3	0		
Bellin	/ 1	/ 1	1	/ 1	/ 2	2	
Cardillo	- 1	/ 3		- 1	/ 1		1
Casson	/ 1	/ 11	11	/ 1	/ 2	2	
Cassillo	/ 3	/ 7	21	/ 3	/ 4	12	
Cassino	/ 1	/ 1	1	/ 1	- 1		1
Casson	- 2	- 5	10	- 2	0		
Casson	- 3	- 5	15	- 3	- 8	24	
Casson	/ 2	/ 7	14	/ 2	/ 2	4	
Casson	- 4	- 11	44	- 4	0		
Casson	/ 2	/ 3	6	/ 2	- 2		4
Casson	- 2	- 1	2	- 2	0		
Casson	- 1	- 1	1	- 1	- 1	1	
Casson	0	- 7		0	/ 1		
Casson	0	/ 3		0	- 1		
Casson	0	- 9		0	- 1		
Casson	- 1	/ 3	3	- 1	/ 3	3	
Casson	- 4	- 11	44	- 4	/ 2	8	
Casson	0	/ 1		0	/ 1		
		/ 200	- 6			/ 64	- 17
		- 6				- 17	
		/ 194				/ 47	
CORRELATION	194	= / .74		47	= / .36		
		21x2.02x6.16				21x2.02x3.07	

PRODUCTS MOMENTS

Terman 1 and Terman 8				Terman 1 and Terman 9			
Terman 1 Deviation	Terman 8 Deviation	Product		Terman 1 Deviation	Terman 9 Deviation	Product	
		/	-			/	-
Adcock	/ 1	/ 7	7	/ 1	/ 1	1	
Ammons	- 2	- 3	6	- 2	- 2	4	
Belknap	/ 3	/ 3	9	/ 3	/ 1	3	
Belkin	/ 1	- 1	1	/ 1	- 3		3
Cartledge	- 1	/ 1	1	- 1	- 2	2	
Corsen	/ 1	/ 1	1	/ 1	/ 2	2	
Cummins	/ 3	/ 5	15	/ 3	/ 2	6	
Enderson	/ 1	- 9	9	/ 1	0		
Evans	- 2	- 1	2	- 2	/ 1		2
Franklin	- 3	/ 1	3	- 3	- 1	3	
Gordon	/ 2	/ 1	2	/ 2	/ 1	2	
Gray	- 4	- 1	4	- 4	/ 2		8
Hartman	/ 2	- 1	2	/ 2	0		
Harshbarger	- 2	- 3	6	- 2	- 1	2	
Hoyt	- 1	- 3	3	- 1	- 2	2	
Johnson	0	- 1		0	0		
Kennedy	0	/ 5		0	0		
Leitch	0	/ 7		0	0		
Lyons	- 1	/ 9	9	- 1	/ 3		3
McIntosh	- 4	- 9	36	- 4	0		
Miller	0	/ 1		0	0		
		/ 91	-25			/ 27	-16
		-25				- 16	
		/ 66				/ 11	
CORRELATION		$\frac{66}{21 \times 2.02 \times 4.56} =$				$\frac{11}{21 \times 2.02 \times 1.51} =$	
		.34				.17	



PRODUCTS MOMENTS

Terman 1 and Terman 10				Terman 1 and Hoke 1			
Terman 1 Deviation	Terman 10 Deviation	Product		Terman 1 Deviation	Hoke 1 Deviation	Product	
✓ 1	- 2	✓	-	✓ 1	- 1	✓	-
- 2	-12	24	2	- 2	✓12	24	1
✓ 3	✓ 2	6		✓ 3	0		
✓ 1	✓ 4	4		✓ 1	0		
- 1	- 4	4		- 1	✓ 3	3	
✓ 1	- 6		6	✓ 1	✓ 9	9	
✓ 3	0			✓ 3	- 2	6	
✓ 1	✓ 2	2		✓ 1	- 2	2	
- 2	- 4	8		- 2	✓ 1	2	
- 3	✓ 2		6	- 3	- 2	6	
✓ 2	0			✓ 2	0		
- 4	0			- 4	✓ 2	8	
✓ 2	- 4		8	✓ 2	- 4	8	
- 2	0			- 2	- 1	2	
- 1	✓ 2		2	- 1	✓ 8	8	
0	✓ 6			0	✓ 6		
0	0			0	✓ 9		
0	0			0	- 3		
- 1	✓ 4		4	-1	-18	18	
- 4	✓ 4		16	- 4	-20	80	
0	- 4			0	✓ 1		
		✓ 48	- 44			✓115	-62
		- 44				- 62	
		✓ 4				✓ 53	
CORRELATION	4	= ✓.02		53	= ✓.17		
	21x2.02x4.07			21x7.51x2.02			

PRODUCTS MOMENTS

Terman 1 and Hoke 2				Terman 1 and Hoke 3			
Terman 1 Deviation	Hoke 2 Deviation	Product		Terman 1 Deviation	Hoke 3 Deviation	Product	
/		/	-	/		/	-
/ 1	/ 3	3		/ 1	/ 10	10	
- 2	/ 13		26	- 2	- 18	36	
/ 3	- 8		24	/ 3	/ 12	36	
/ 1	/ 13	13		/ 1	- 13		13
- 1	/ 7		7	- 1	- 18	18	
/ 1	- 9		9	/ 1	/ 27	27	
/ 3	- 8		24	/ 3	/ 22	66	
/ 1	- 3		3	/ 1	- 18		18
- 2	/ 1		2	- 2	- 8	16	
- 3	/ 5		15	- 3	/ 10		30
/ 2	- 3		6	/ 2	/ 15	30	
- 4	- 9	36		- 4	/ 2		8
/ 2	/ 10	20		/ 2	/ 2	4	
- 2	/ 9		18	- 2	- 13	26	
- 1	- 8	8		- 1	- 8	8	
0	- 4			0	/ 2		
0	/ 9			0	- 3		
0	- 3			0	- 18		
- 1	- 6	6		- 1	- 3	3	
- 4	/ 3		12	- 4	/ 2		8
0	- 7			0	/ 22		
<hr/>				<hr/>			
		/ 86	- 146			/ 280	- 77
		<hr/>				<hr/>	
		/ 86				- 77	
		<hr/>				<hr/>	
		- 60				/ 203	
		<hr/>				<hr/>	
		- 60				203	
		<hr/>				<hr/>	
		21x7.48x2.02				21x13.9x2.02	
		= -.19				= / .34	

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PRODUCTS MOMENTS

	Terman 1 and Hoke 4				Terman 1 and Hoke 5		
	Terman 1 Deviation	Hoke 4 Deviation	Product		Terman 1 Deviation	Hoke 5 Deviation	Product
	/		-		/		-
Almond	/ 1	/21	21		/ 1	/16	16
Amaretto	- 2	-23	46		- 2	-19	38
Avocado	/ 3	/17	51		/ 3	/ 3	9
Bacon	/ 1	/ 5	5		/ 1	- 8	8
Banana	- 1	- 1	1		- 1	-18	18
Berry	/ 1	/ 3	3		/ 1	/11	11
Butter	/ 3	/11	33		/ 3	/19	57
Chocolate	/ 1	-11	11		/ 1	/ 2	2
Coffee	- 2	-23	46		- 2	- 8	16
Cream	- 3	-17	51		- 3	/ 2	6
Custard	/ 2	/ 3	6		/ 2	/ 4	8
Fruit	- 4	- 1	4		- 4	/24	96
Ginger	/ 2	- 9	18		/ 2	- 4	8
Ice Cream	- 2	/ 9	18		- 2	- 3	6
Lemon	- 1	- 1	1		- 1	-18	18
Milk	0	- 1			0	- 2	
Peppermint	0	/17			0	/15	
Pineapple	0	- 7			0	- 6	
Rice	- 1	/27	27		- 1	/14	14
Sugar	- 4	-23	92		- 4	-10	40
Tea	0	- 1			0	-18	
			<u>/360 - 74</u>				<u>/239 -132</u>
			<u>- 74</u>				<u>-132</u>
			<u>/286</u>				<u>/107</u>

CORRELATION

$$\frac{286}{21 \times 14.02 \times 2.02} = / .48$$

$$\frac{107}{21 \times 12.71 \times 2.02} = / .20$$

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PRODUCTS MOMENTS

Terman 1 and Hoke 6				Terman 1 and Hoke 7			
Terman 1 Deviation	Hoke 6 Deviation	Product		Terman 1 Deviation	Hoke 7 Deviation	Product	
/		/	-	/		/	-
/ 1	/16	16		/ 1	/ 7	7	
- 2	-28	56		- 2	/ 2		4
/ 3	/16	48		/ 3	/ 8	24	
/ 1	/20	20		/ 1	/13	13	
- 1	/20		20	- 1	/ 1		1
/ 1	/ 8	8		/ 1	/ 7	7	
/ 3	/20	60		/ 3	/ 4	12	
/ 1	/20	20		/ 1	-11		11
- 2	-38	76		- 2	-10	20	
- 3	0			- 3	/22		66
/ 2	/ 6	12		/ 2	/ 5	10	
- 4	-20	80		- 4	- 8	32	
/ 2	-38		76	/ 2	-61		122
- 2	/16		32	- 2	/17		34
- 1	-18	18		- 1	/ 2		2
0	/20			0	- 4		
0	/20			0	/ 9		
0	-20			0	- 3		
- 1	-12	12		- 1	-12	12	
- 4	-22	88		- 4	/ 3		12
0	/12			0	/ 4		
		/514	-128			/137	-252
		-128				/137	
		/386				-115	
CORRELATION		386	=/ .44			-115	= -.17
		21x20.51x2.02				21x16.09x2.02	

PRODUCTS MOMENTS

	Terman 1 and Tressler			Terman 2 and Terman 3		
	Terman 1 Deviation	Tressler Deviation	Product	Terman 2 Deviation	Terman 3 Deviation	Product
	/ 1	/ 5	5	/ 3	/ 10	30
	- 2	-31	62	- 9	-18	162
	/ 3	/ 13	39	/ 1	/ 8	8
	/ 1	/ 13	13	/ 1	/ 2	2
	- 1	/ 1	1	- 3	-14	42
	/ 1	/ 5	5	- 1	/ 6	6
	/ 3	/ 17	51	- 1	/ 6	6
	/ 1	/ 5	5	/ 1	0	
	- 2	- 9	18	/ 3	/ 2	6
	- 3	-23	69	- 3	-14	42
	/ 2	/ 13	26	/ 3	/ 2	6
	- 4	/ 16	64	/ 1	-14	14
	/ 2	- 3	6	/ 3	/ 8	24
	- 2	- 6	12	/ 1	/ 10	10
	- 1	-11	11	/ 3	/ 2	6
	0	-19		/ 1	- 2	2
	0	/ 21		/ 3	/ 6	18
	0	- 2		/ 1	-10	10
	- 1	/ 8	8	/ 1	/ 6	6
	- 4	-10	40	- 3	- 6	18
	0	-10		/ 3	/ 6	18
			/ 356 -79			/ 398 -38
			- 79			- 38
			/ 277			/ 360
CORRELATION	277 21x13.67x2.02 = / .48			360 21x2.94x8.66 = / .67		

PRODUCTS MOMENTS

Terman 2 and Terman 4			Terman 2 and Terman 5		
Terman 2 Deviation	Terman 4 Deviation	Product	Terman 2 Deviation	Terman 5 Deviation	Product
/ 3	/ 6	18	/ 3	/ 1	3
- 9	-10	90	- 9	- 7	63
/ 1	- 1	1	/ 1	/ 5	5
/ 1	- 7	7	/ 1	/ 3	3
- 3	- 3	9	- 3	- 7	21
- 1	/ 3	3	- 1	- 5	5
- 1	/ 3	3	- 1	/ 5	5
/ 1	- 3	3	/ 1	/ 7	7
/ 3	/ 1	3	/ 3	- 5	15
- 3	- 5	15	- 3	/ 7	21
/ 3	/ 6	18	/ 3	/ 3	9
/ 1	- 2	2	/ 1	/ 1	1
/ 3	/ 2	6	/ 3	/ 3	9
/ 1	/ 1	1	/ 1	- 3	3
/ 3	- 2	6	/ 3	/ 1	3
/ 1	/ 1	1	/ 1	- 5	5
/ 3	/ 2	6	/ 3	- 5	15
/ 1	- 2	2	/ 1	- 5	5
/ 1	/ 5	5	/ 1	- 3	3
- 3	0		- 3	- 1	3
/ 3	- 2	6	/ 3	/ 5	15
		/172 -33			/147 - 72
		- 33			- 72
		/139			/ 75
CORRELATION		139			75
		21x2.94x3.99			21x2.94x4.60
		= / .56			= / .26

PRODUCTS MOMENTS

Terman 2 and
Terman 6

Terman 2 and
Terman 7

	Terman 2 Deviation	Terman 6 Deviation	Product		Terman 2 Deviation	Terman 7 Deviation	Product	
	/	/	/	-	/	/	/	-
	/ 3	/ 9	27		/ 3	/ 1	3	
	- 9	- 3	27		- 9	- 9	81	
	/ 1	/ 5	5		/ 1	0		
	/ 1	/ 1	1		/ 1	/ 2	2	
	- 3	/ 3	9		- 3	/ 1		3
	- 1	/ 11		11	- 1	/ 2		2
	- 1	/ 7		7	- 1	/ 4		4
	/ 1	/ 1	1		/ 1	- 1		1
	/ 3	- 5		15	/ 3	0		
	- 3	- 5	15		- 3	- 8	24	
	/ 3	/ 7	21		/ 3	/ 2	6	
	/ 1	-11		11	/ 1	0		
	/ 3	/ 3	9		/ 3	- 2		6
	/ 1	- 1		1	/ 1	0		
	/ 3	- 1		3	/ 3	- 1		3
	/ 1	- 7		7	/ 1	/ 1	1	
	/ 3	/ 3	9		/ 3	- 1		3
	/ 1	- 9		9	/ 1	- 1		1
	/ 1	/ 3	3		/ 1	/ 3	3	
	- 3	-11	33		- 3	/ 2		6
	/ 3	/ 1	3		/ 3	/ 1	3	
			<u>/154</u>	<u>-63</u>			<u>/123</u>	<u>-29</u>
			<u>- 63</u>				<u>- 29</u>	
			<u>/ 91</u>				<u>/ 94</u>	
CORRELATION		91	= / .24			94	= / .50	
		21x2.94x6.16				21x2.94x3.07		

PRODUCTS MOMENTS

	Terman 2 and Terman 8			Terman 2 and Terman 9		
	Terman 2 Deviation	Terman 8 Deviation	Product	Terman 2 Deviation	Terman 9 Deviation	Product
	/ 3	/ 7	21	/ 3	/ 1	3
Adaptation	- 9	- 3	27	- 9	- 2	18
Adjustment	/ 1	/ 3	3	/ 1	/ 1	1
Admission	/ 1	- 1	1	/ 1	- 3	3
Admission	- 3	/ 1	3	- 3	- 2	6
Admission	- 1	/ 1	1	- 1	/ 2	2
Admission	- 1	/ 5	5	- 1	/ 2	2
Admission	/ 1	- 9	9	/ 1	0	
Admission	/ 3	- 1	3	/ 3	/ 1	3
Admission	- 3	/ 1	3	- 3	- 1	3
Admission	/ 3	/ 1	3	/ 3	/ 1	3
Admission	/ 1	- 1	1	/ 1	/ 2	2
Admission	/ 3	- 1	3	/ 3	0	
Admission	/ 1	- 3	3	/ 1	- 1	1
Admission	/ 3	- 3	9	/ 3	- 2	6
Admission	/ 1	- 1	1	/ 1	0	
Admission	/ 3	/ 5	15	/ 3	0	
Admission	/ 1	/ 7	7	/ 1	0	
Admission	/ 1	/ 9	9	/ 1	/ 3	3
Admission	- 3	- 9	27	- 3	0	
Admission	/ 3	/ 1	3	/ 3	0	
			/ 115 -42			/ 42 -14
			- 42			-14
			/ 73			/ 28
CORRELATION	73 21x2.94x4.56 = / .26			28 21x2.94x1.51 = / .30		

PRODUCTS MOMENTS

Terman 2 and Terman 10				Terman 2 and Hoke 1			
Terman 2 Deviation	Terman 10 Deviation	Product		Terman 2 Deviation	Hoke 1 Deviation	Product	
		/	-			/	-
/ 3	- 2		6	/ 3	- 1		3
- 9	-12	108		- 9	/12	108	
/ 1	/ 2	2		/ 1	0		
/ 1	/ 4	4		/ 1	0		
- 3	- 4	12		- 3	/ 3		9
- 1	- 6	6		- 1	/ 9		9
- 1	0			- 1	- 2	2	
/ 1	/ 2	2		/ 1	- 2		2
/ 3	- 4		12	/ 3	/ 1	3	
- 3	/ 2		6	- 3	- 2	6	
/ 3	0			/ 3	0		
/ 1	0			/ 1	/ 2	2	
/ 3	- 4		12	/ 3	- 4		12
/ 1	0			/ 1	- 1		1
/ 3	/ 2	6		/ 3	/ 8	24	
/ 1	/ 6	6		/ 1	/ 6	6	
/ 3	0			/ 3	/ 9	27	
/ 1	0			/ 1	- 3		3
/ 1	/ 4	4		/ 1	-18		18
- 3	/ 4		12	- 3	-20	60	
/ 3	- 4		12	/ 3	/ 1	3	
		/ .150	- 60			/133	-165
		- 60				/133	
		/ 90				- 32	
CORRELATION	90			-32			- .07
		21x2.94x4.07				21x7.51x2.94	
		= / .36					

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PRODUCTS MOMENTS

Terman 2 and Hoke 2				Terman 2 and Hoke 3			
Terman 2 Deviation	Hoke 2 Deviation	Product		Terman 2 Deviation	Hoke 3 Deviation	Product	
/ 3	/ 3	9		/ 3	/10	30	
- 9	/13	117		- 9	-18	162	
/ 1	- 8	8		/ 1	/12	12	
/ 1	/13	13		/ 1	-13		13
- 3	/ 7	21		- 3	-18	54	
- 1	- 9	9		- 1	/27		27
- 1	- 8	8		- 1	/22		22
/ 1	- 3	3		/ 1	-18		18
/ 3	/ 1	3		/ 3	- 8		24
- 3	/ 5	15		- 3	/10		30
/ 3	- 3	9		/ 3	/15	45	
/ 1	- 9	9		/ 1	/ 2	2	
/ 3	/10	30		/ 3	/ 2	6	
/ 1	/ 9	9		/ 1	-13		13
/ 3	- 8	24		/ 3	- 8		24
/ 1	- 4	4		/ 1	/ 2	2	
/ 3	/ 9	27		/ 3	- 3		9
/ 1	- 3	3		/ 1	-18		18
/ 1	- 6	6		/ 1	- 3		3
- 3	/ 3	9		- 3	/ 2		6
/ 3	- 7	21		/ 3	/22	66	
		/108	-249			/379	-207
		/108				-207	
		- 141				/172	
		-141				172	
		21x7.48x2.94	= -.31			21x13.9x2.94	= / .20

CORRELATION



PRODUCTS MOMENTS

Terman 2 and Hoke 4				Terman 2 and Hoke 5			
Terman 2 Deviation	Hoke 4 Deviation	Product		Terman 2 Deviation	Hoke 5 Deviation	Product	
		/	-			/	-
/ 3	/21	63		/ 3	/16	48	
- 9	-23	207		- 9	-19	171	
/ 1	/17	17		/ 1	/ 3	3	
/ 1	/ 5	5		/ 1	- 8		8
- 3	- 1	3		- 3	-18	54	
- 1	/ 3		3	- 1	/11		11
- 1	/11		11	- 1	/19		19
/ 1	-11		11	/ 1	/ 2	2	
/ 3	-23		69	/ 3	- 8		24
- 3	-17	51		- 3	/ 2		6
/ 3	/ 3	9		/ 3	/ 4	12	
/ 1	- 1		1	/ 1	/24	24	
/ 3	- 9		27	/ 3	- 4		12
/ 1	/ 9	9		/ 1	- 3		3
/ 3	- 1		3	/ 3	-18		54
/ 1	- 1		1	/ 1	- 2		2
/ 3	/17	51		/ 3	/15	45	
/ 1	- 7		7	/ 1	- 6		6
/ 1	/27	27		/ 1	/14	14	
- 3	-23	69		- 3	-10	30	
/ 3	- 1		3	/ 3	-18		54
		/ 511	-136			/ 403	-199
		- 136				- 199	
		/ 375				/ 204	
CORRELATION		375				204	
		21x14.02x2.94	=/ .43			21x12.71x2.94	=/ .26

PRODUCTS MOMENTS

Terman 2 and Hoke 6				Terman 2 and Hoke 7			
	Terman 2 Deviation	Hoke 6 Deviation	Product		Terman 2 Deviation	Hoke 7 Deviation	Product
	✓ 3	✓ 16	48		✓ 3	✓ 7	21
Adcock	- 9	- 23	252		- 9	✓ 2	18
Bal?ant?on	✓ 1	✓ 16	16		✓ 1	✓ 8	8
Bal?on	✓ 1	✓ 20	20		✓ 1	✓ 13	13
Carroll	- 3	✓ 20	60		- 3	✓ 1	3
Corn	- 1	✓ 8	8		- 1	✓ 7	7
Curry	- 1	✓ 20	20		- 1	✓ 4	4
Curry	✓ 1	✓ 20	20		✓ 1	- 11	11
Curry	✓ 3	- 38	114		✓ 3	- 10	30
Curry	- 3	0			- 3	✓ 22	66
Curry	✓ 3	✓ 6	18		✓ 3	✓ 5	15
Curry	✓ 1	- 20	20		✓ 1	- 8	8
Curry	✓ 3	- 38	114		✓ 3	- 61	183
Curry	✓ 1	✓ 16	16		✓ 1	✓ 17	17
Curry	✓ 3	- 18	54		✓ 3	✓ 2	6
Curry	✓ 1	✓ 20	20		✓ 1	- 4	4
Curry	✓ 3	✓ 20	60		✓ 3	✓ 9	27
Curry	✓ 1	- 20	20		✓ 1	- 3	3
Curry	✓ 1	- 12	12		✓ 1	- 12	12
Curry	- 3	- 22	66		- 3	✓ 3	9
Curry	✓ 3	✓ 12	36		✓ 3	✓ 4	12
		✓ 572	- 422			✓ 119	- 358
		- 422					✓ 119
		✓ 150				- 239	- 239
CORRELATION		150				- 239	- 239
		21x20.51x2.94	= ✓.12			21x16.09x2.94	= -.25

PRODUCTS MOMENTS

	Terman 2 and Tressler			Terman 3 and Terman 4		
	Terman 2 Deviation	Tressler Deviation	Product	Terman 3 Deviation	Terman 4 Deviation	Product
	/	/	-	/	/	-
Adverse	/ 3	/ 5	15	/10	/ 6	60
Amoralistic	- 9	-31	279	-18	-10	180
Belongingness	/ 1	/13	13	/ 8	- 1	8
Beliefs	/ 1	/13	13	/ 2	- 7	14
Conscience	- 3	/ 1	3	-14	- 3	42
Control	- 1	/ 5	5	/ 6	/ 3	18
Cooperation	- 1	/17	17	/ 6	/ 3	18
Discipline	/ 1	/ 5	5	0	- 3	
Efficiency	/ 3	- 9	27	/ 2	/ 1	2
Efficiency	- 3	-23	69	-14	- 5	70
Openness	/ 3	/13	39	/ 2	/ 6	12
Values	/ 1	/16	16	-14	- 2	28
Wishes	/ 3	- 3	9	/ 8	/ 2	16
Individuality	/ 1	- 6	6	/10	/ 1	10
Values	/ 3	-11	33	/ 2	- 2	4
Individuality	/ 1	-19	19	- 2	/ 1	2
Individuality	/ 3	/21	63	/ 6	/ 2	12
Individuality	/ 1	/ 2	2	-10	- 2	20
Individuality	/ 1	/ 8	8	/ 6	/ 5	30
Individuality	- 3	-10	30	- 6	0	
Individuality	/ 3	-10	30	/ 6	- 2	12
			/ 552 -149			/ 518 - 40
			- 149			- 40
			/ 403			/ 478
CORRELATION	403 21x13.67x2.94 = / .54			478 21x8.66x3.99 = / .66		

PRODUCTS MOMENTS

	Terman 3 and Terman 5				Terman 3 and Terman 6			
	Terman 3 Deviation	Terman 5 Deviation	Product		Terman 3 Deviation	Terman 6 Deviation	Product	
	/		-		/		-	
100000	/10	/1	10		/10	/9	90	
1000000	-18	-7	126		-18	-3	54	
10000000	/8	/5	40		/8	/5	40	
100000000	/2	/3	6		/2	/1	2	
1000000000	-14	-7	98		-14	/3	42	
10000000000	/6	-5	30		/6	/11	66	
100000000000	/6	/5	30		/6	/7	42	
1000000000000	0	/7			0	/1		
10000000000000	/2	-5	10		/2	-5	10	
100000000000000	-14	/7	98		-14	-5	70	
1000000000000000	/2	/3	6		/2	/7	14	
10000000000000000	-14	/1	14		-14	-11	154	
100000000000000000	/8	/3	24		/8	/3	24	
1000000000000000000	/10	-3	30		/10	-1	10	
10000000000000000000	/2	/1	2		/2	-1	2	
100000000000000000000	-2	-5	10		-2	-7	14	
1000000000000000000000	/6	-5	30		/6	/3	18	
10000000000000000000000	-10	-5	50		-10	-9	90	
100000000000000000000000	/6	-3	18		/6	/3	18	
1000000000000000000000000	-6	-1	6		-6	-11	66	
10000000000000000000000000	/6	/5	30		/6	/1	6	
			<u>/438</u>	<u>-230</u>			<u>/768</u>	<u>-64</u>
			<u>-230</u>				<u>-64</u>	
			<u>/208</u>				<u>/704</u>	
CORRELATION	208				704			
	<u>21x8.66x4.60</u>			= /25	<u>21x8.66x6.16</u>			= /63

	Terman 3 and Terman 7			Terman 3 and Terman 8		
	Terman 3 Deviation	Terman 7 Deviation	Product	Terman 3 Deviation	Terman 7 Deviation	Product
			$\cancel{10} -$			$\cancel{10} -$
10000	$\cancel{10}$	$\cancel{1}$	10	$\cancel{10}$	$\cancel{7}$	70
1000000	-18	-9	162	-18	-3	54
10000000	$\cancel{8}$	0		$\cancel{8}$	$\cancel{3}$	24
100000000						
1000000000	$\cancel{2}$	$\cancel{2}$	4	$\cancel{2}$	-1	2
10000000000	-14	$\cancel{1}$	14	-14	$\cancel{1}$	14
100000000000	$\cancel{6}$	$\cancel{2}$	12	$\cancel{6}$	$\cancel{1}$	6
1000000000000						
10000000000000	$\cancel{6}$	$\cancel{4}$	24	$\cancel{6}$	$\cancel{5}$	30
100000000000000	0	-1		0	-9	
1000000000000000	$\cancel{2}$	0		$\cancel{2}$	-1	2
10000000000000000						
100000000000000000	-14	-8	112	-14	$\cancel{1}$	14
1000000000000000000	$\cancel{2}$	$\cancel{2}$	4	$\cancel{2}$	$\cancel{1}$	2
10000000000000000000	-14	0		-14	-1	14
100000000000000000000						
1000000000000000000000	$\cancel{8}$	-2	16	$\cancel{8}$	-1	8
10000000000000000000000	$\cancel{10}$	0		$\cancel{10}$	-3	30
100000000000000000000000	$\cancel{2}$	-1	2	$\cancel{2}$	-3	6
1000000000000000000000000						
10000000000000000000000000	-2	$\cancel{1}$	2	-2	-1	2
100000000000000000000000000	$\cancel{6}$	-1	6	$\cancel{6}$	$\cancel{5}$	30
1000000000000000000000000000	-10	-1	10	-10	$\cancel{7}$	70
10000000000000000000000000000						
100000000000000000000000000000	$\cancel{6}$	$\cancel{3}$	18	$\cancel{6}$	$\cancel{9}$	54
1000000000000000000000000000000	-6	$\cancel{2}$	12	-6	-9	54
10000000000000000000000000000000	$\cancel{6}$	$\cancel{1}$	6	$\cancel{6}$	$\cancel{1}$	6
			$\cancel{362} - 52$			$\cancel{346} - 146$
			$- 52$			$- 146$
CORRELATION	310	$\cancel{310}$	$= \cancel{.56}$	200	$\cancel{200}$	$= \cancel{.24}$
	$21 \times 8.66 \times 3.07$			$21 \times 8.66 \times 4.56$		

PRODUCTS MOMENTS

Terman 3 and Terman 9				Terman 3 and Terman 10			
Terman 3 Deviation	Terman 9 Deviation	Product		Terman 3 Deviation	Terman 10 Deviation	Product	
		/	-			/	-
10	1	10		10	- 2		20
-18	- 2	36		-18	-12	216	
8	1	8		8	2	16	
2	- 3		6	2	4	8	
-14	- 2	28		-14	- 4	56	
6	2	12		6	- 6		36
6	2	12		6	0		
0	0			0	2		
2	1	2		2	- 4		8
-14	- 1	14		-14	2		28
2	1	2		2	0		
-14	2		28	-14	0		
8	0			8	- 4		32
10	- 1		10	10	0		
2	- 2		4	2	2	4	
- 2	0			- 2	6		12
6	0			6	0		
-10	0			-10	0		
6	3	18		6	4	24	
- 6	0			- 6	4		24
6	0			6	- 4		24
		/142	-48			/324	-184
		- 48				-184	
		/ 94				/140	
CORRELATION		94	= / .34			140	= / .19
		21x8.66x1.51				21x8.66x4.07	

PRODUCTS MOMENTS

Terman 3 and Hoke 1				Terman 3 and Hoke 2			
Terman 3 Deviation	Hoke 1 Deviation	Product		Terman 3 Deviation	Hoke 2 Deviation	Product	
✓10	- 1	✓10	-	✓10	✓ 3	30	-
-18	✓12	216		-18	✓13		234
✓ 8	0			✓ 8	- 8		64
✓ 2	0			✓ 2	✓13	26	
-14	✓ 3	42		-14	✓ 7		98
✓ 6	✓ 9	54		✓ 6	- 9		54
✓ 6	- 2	12		✓ 6	- 8		48
0	- 2			0	- 3		
✓ 2	✓ 1	2		✓ 2	✓ 1	2	
-14	- 2	28		-14	✓ 5		70
✓ 2	0			✓ 2	- 3		6
-14	✓ 2	28		-14	- 9	126	
✓ 8	- 4	32		✓ 8	✓10	80	
✓10	- 1	10		✓10	✓ 9	90	
✓ 2	✓ 8	16		✓ 2	- 8		16
- 2	✓ 6	12		- 2	- 4	8	
✓ 6	✓ 9	54		✓ 6	✓ 9	54	
-10	- 3	30		-10	- 3	30	
✓ 6	-18	108		✓ 6	- 6		36
- 6	-20	120		- 6	✓ 3		18
✓ 6	✓ 1	6		✓ 6	- 7		42
		✓310	-470			✓446	-686
		✓310				✓446	
		-160				-240	
CORRELATION	$\frac{-160}{21 \times 7.51 \times 8.66} = -.12$			$\frac{-240}{21 \times 7.48 \times 8.66} = -.18$			

PRODUCTS MOMENTS

Terman 3 and
Hoke 3

Terman 3 and
Hoke 4

Terman 3 Deviation	Hoke 3 Deviation	Product	Terman 3 Deviation	Hoke 4 Deviation	Product
$\cancel{10}$	$\cancel{10}$	100	$\cancel{10}$	$\cancel{21}$	210
-18	-18	324	-18	-23	414
$\cancel{8}$	$\cancel{12}$	96	$\cancel{8}$	$\cancel{17}$	136
$\cancel{2}$	-13	26	$\cancel{2}$	$\cancel{5}$	10
-14	-18	252	-14	-1	14
$\cancel{6}$	$\cancel{27}$	162	$\cancel{6}$	$\cancel{3}$	18
$\cancel{6}$	$\cancel{22}$	132	$\cancel{6}$	$\cancel{11}$	66
0	-18		0	-11	
$\cancel{2}$	-8	16	$\cancel{2}$	-23	46
-14	$\cancel{10}$	140	-14	-17	238
$\cancel{2}$	$\cancel{15}$	30	$\cancel{2}$	$\cancel{3}$	6
-14	$\cancel{2}$	28	-14	-1	14
$\cancel{8}$	$\cancel{2}$	16	$\cancel{8}$	-9	72
$\cancel{10}$	-13	130	$\cancel{10}$	$\cancel{9}$	90
$\cancel{2}$	-8	16	$\cancel{2}$	-1	2
-2	$\cancel{2}$	4	-2	-1	2
$\cancel{6}$	-3	18	$\cancel{6}$	$\cancel{17}$	102
-10	-18	180	-10	-7	70
$\cancel{6}$	-3	18	$\cancel{6}$	$\cancel{27}$	162
-6	$\cancel{2}$	12	-6	-23	138
$\cancel{6}$	$\cancel{22}$	132	$\cancel{6}$	-1	6
		$\cancel{1424}$			$\cancel{1690}$
		-408			-126
		$\cancel{1016}$			$\cancel{1564}$

CORRELATION $\frac{1016}{21 \times 13.9 \times 8.66} = \cancel{.40}$

$\frac{1564}{21 \times 14.02 \times 8.66} = \cancel{.61}$

PRODUCTS MOMENTS

	Terman 3 and Hoke 5			Terman 3 and Hoke 6		
	Terman 3 Deviation	Hoke 5 Deviation	Product / -	Terman 3 Deviation	Hoke 6 Deviation	Product / -
Adcock	/10	/16	160	/10	/16	160
Annunzio	-18	-19	342	-18	-28	504
Ballantine	/ 8	/ 3	24	/ 8	/16	128
Belkin	/ 2	- 8	16	/ 2	/20	40
Cardillo	-14	-18	252	-14	/20	280
Corson	/ 6	/11	66	/ 6	/ 8	48
Cummins	/ 6	/19	114	/ 6	/20	120
DeMarco	0	/ 2		0	/20	
Glover	/ 2	- 8	16	/ 2	-38	76
Giordano	-14	/ 2	28	-14	0	
Greene	/ 2	/ 4	8	/ 2	/ 6	12
Haley	-14	/24	336	-14	-20	280
Hansen	/ 8	- 4	32	/ 8	-38	304
LaChapelle	/10	- 3	30	/10	/16	160
Lyden	/ 2	-18	36	/ 2	-18	36
MacDougall	- 2	- 2	4	- 2	/20	40
McCauley	/ 6	/15	90	/ 6	/20	120
McIntosh	-10	- 6	60	-10	-20	200
Murphy	/ 6	/14	84	/ 6	-12	72
Stearns	- 6	-10	60	- 6	-22	132
Wells	/ 6	-18	108	/ 6	/12	72
			/1264 -602			/1976 -808
			- 602			- 808
			/ 662			/1168
CORRELATION	662			1168		
	21x12.71x8.66			21x20.51x8.66		
	= .29			= .31		

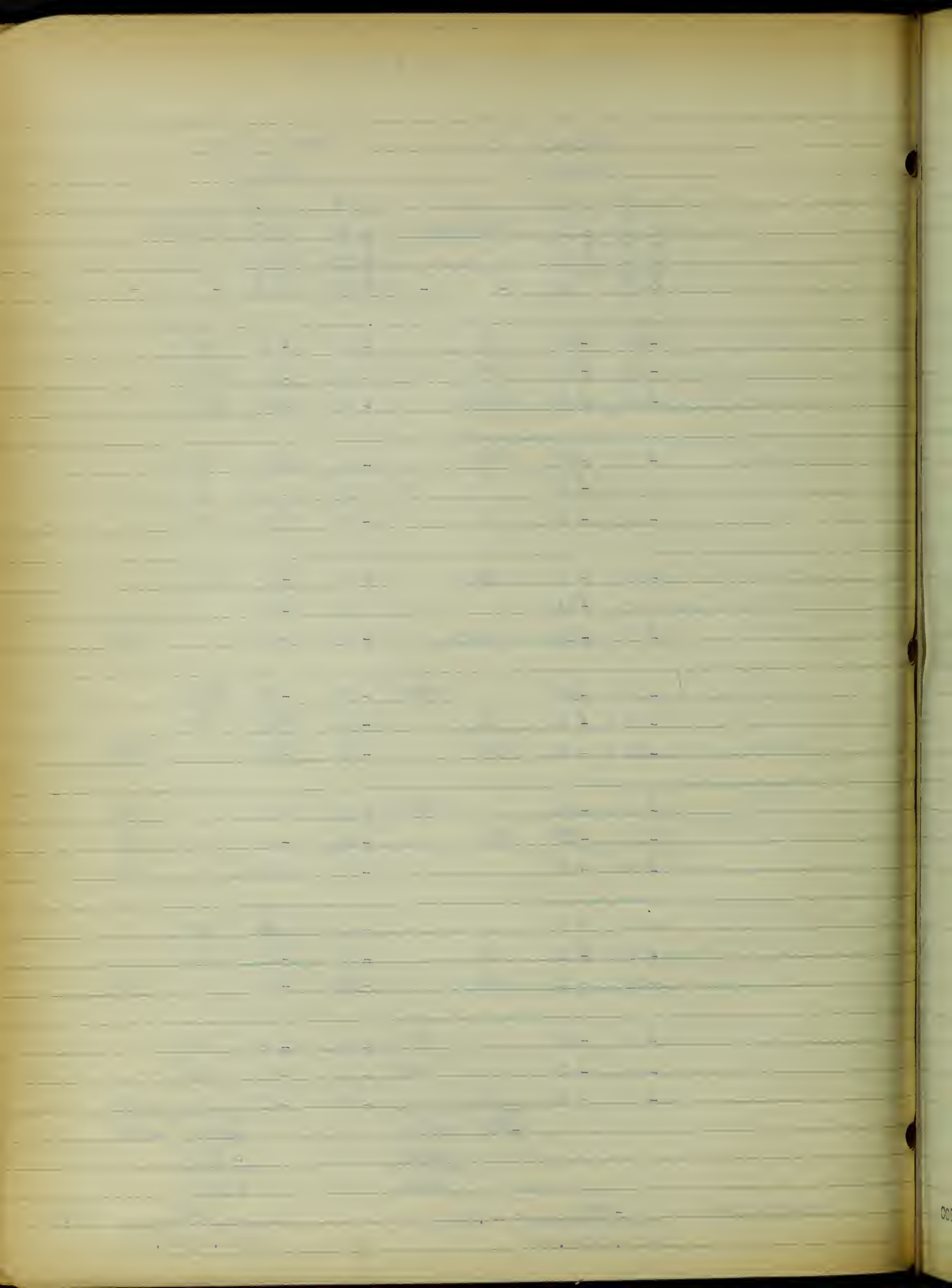
PRODUCTS MOMENTS

Terman 3 and Hoke 7				Terman 3 and Tressler			
Terman 3 Deviation	Hoke 7 Deviation	Product		Terman 3 Deviation	Tressler Deviation	Product	
/		/	-	/		/	-
/10	/7	70		/10	/5	50	
-18	/2		36	-18	-31	558	
/8	/8	64		/8	/13	104	
/2	/13	26		/2	/13	26	
-14	/1		14	-14	-1	14	
/6	/7	42		/6	/5	30	
/6	/4	24		/6	/17	102	
0	/11			0	/5		
/2	/10	20		/2	-9		18
-14	/22		308	-14	-23	322	
/2	/5	10		/2	/13	26	
-14	-8	112		-14	/16		224
/8	-61		488	/8	-3		24
/10	/17	170		/10	-6		60
/2	/2	4		/2	-11		22
-2	-4	8		-2	-19	38	
/6	/9	54		/6	/21	126	
-10	-3	30		-10	/2		20
/6	-12		72	/6	/8	48	
-6	/3		18	-6	-10	60	
/6	/4	24		/6	-10		60
		/658	-936			/1504	-428
		/658				-428	
		-278				/1076	

CORRELATION

$$\frac{-278}{21 \times 16.09 \times 8.66} = -.09$$

$$\frac{1076}{21 \times 13.67 \times 8.66} = /.43$$



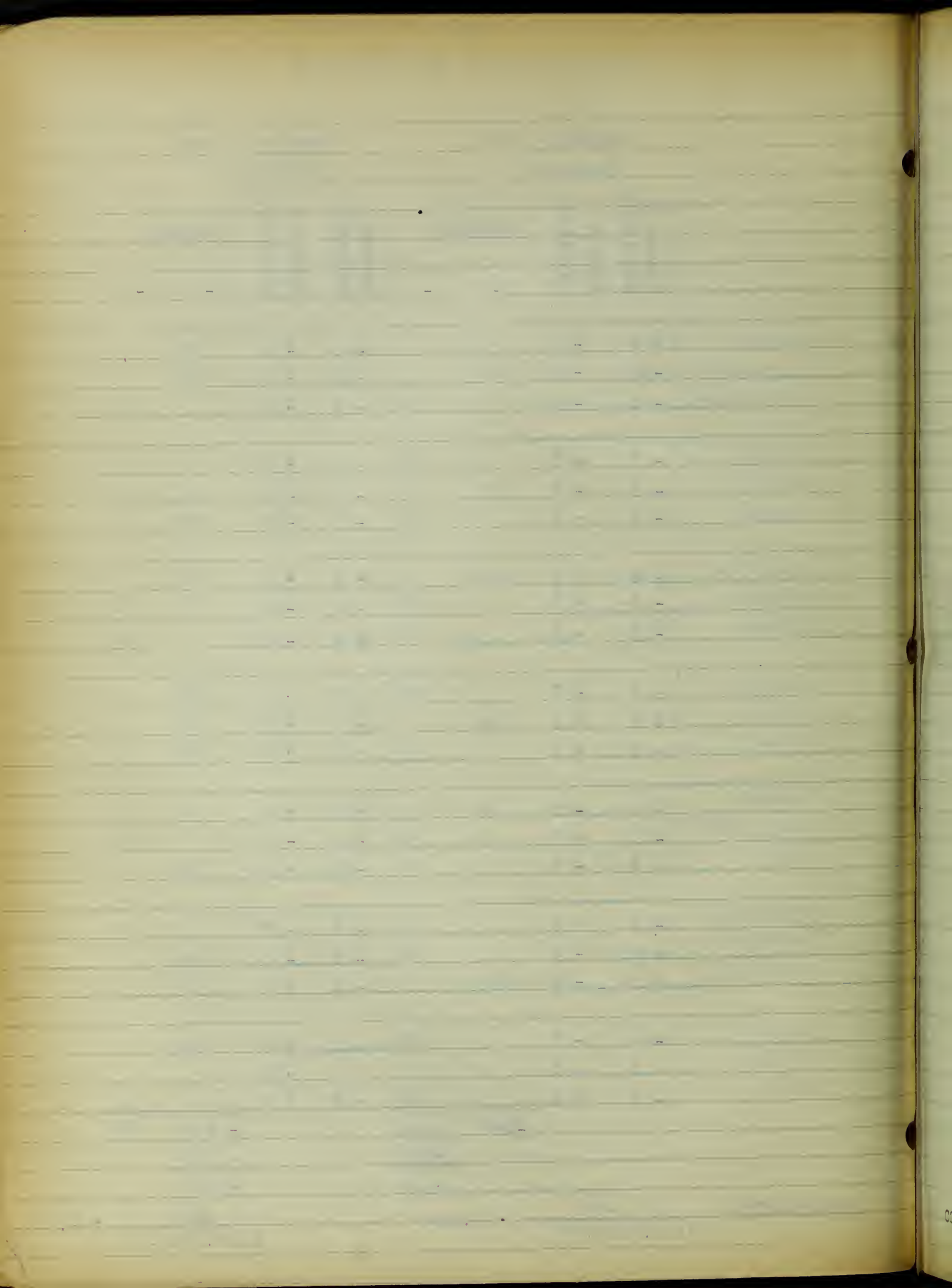
PRODUCTS MOMENTS

Terman 4 and Terman 5				Terman 4 and Terman 6			
Terman 4 Deviation	Terman 5 Deviation	Product		Terman 4 Deviation	Terman 6 Deviation	Product	
/		/	-	/		/	-
Adams	/ 6	/ 1	6	/ 6	/ 9	54	
Adams	-10	- 7	70	-10	- 3	30	
Adams	- 1	/ 5	5	- 1	/ 5		5
Adams	- 7	/ 3	21	- 7	/ 1		7
Adams	- 3	- 7	21	- 3	/ 3		9
Adams	/ 3	- 5	15	/ 3	/11	33	
Adams	/ 3	/ 5	15	/ 3	/ 7	21	
Adams	- 3	/ 7	21	- 3	/ 1		3
Adams	/ 1	- 5	5	/ 1	- 5		5
Adams	- 5	/ 7	35	- 5	- 5	25	
Adams	/ 6	/ 3	18	/ 6	/ 7	42	
Adams	- 2	/ 1	2	- 2	-11	22	
Adams	/ 2	/ 3	6	/ 2	/ 3	6	
Adams	/ 1	- 3	3	/ 1	- 1		1
Adams	- 2	/ 1	2	- 2	- 1	2	
Adams	/ 1	- 5	5	/ 1	- 7		7
Adams	/ 2	- 5	10	/ 2	/ 3	6	
Adams	- 2	- 5	10	- 2	- 9	18	
Adams	/ 5	- 3	15	/ 5	/ 3	15	
Adams	0	- 1		0	-11		
Adams	- 2	/ 5	10	- 2	/ 1		2
		/146	-149			/ 274	- 39
		/146				- 39	
		- 3				/ 235	

CORRELATION

$$\frac{-3}{21 \times 3.99 \times 4.60} = -.01$$

$$\frac{235}{21 \times 3.99 \times 6.16} = .45$$



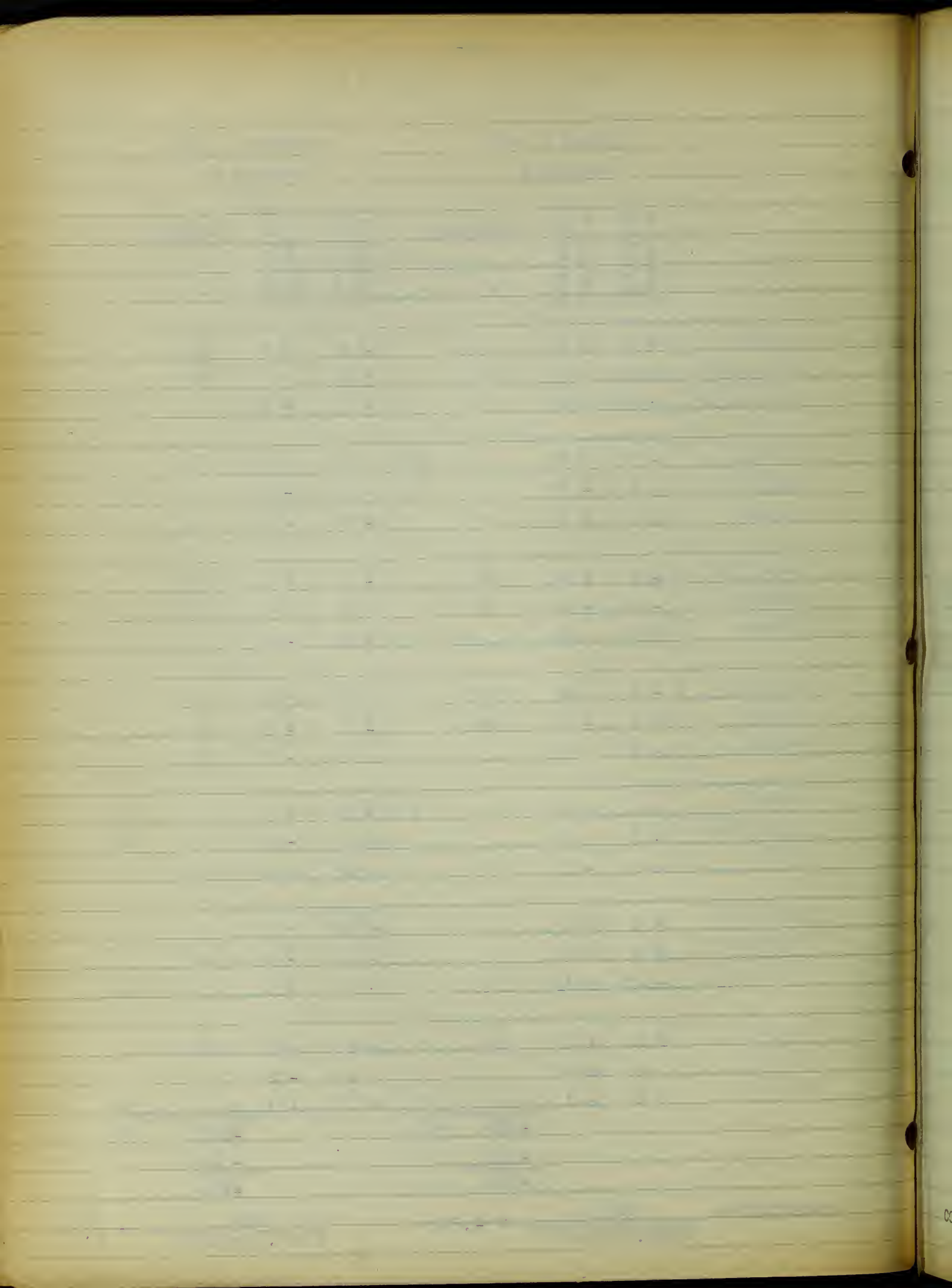
PRODUCTS MOMENTS

	Terman 4 and Terman 7			Terman 4 and Terman 8		
	Terman 4 Deviation	Terman 7 Deviation	Product / -	Terman 4 Deviation	Terman 8 Deviation	Product / -
Adcock	/ 6	/ 1	6	/ 6	/ 7	42
Ammons	-10	- 9	90	-10	- 3	30
Bell	- 1	0		- 1	/ 3	3
Bell	- 7	/ 2	14	- 7	- 1	7
Cardillo	- 3	/ 1	3	- 3	/ 1	3
Carson	/ 3	/ 2	6	/ 3	/ 1	3
Chaffin	/ 3	/ 4	12	/ 3	/ 5	15
Chaffin	- 3	- 1	3	- 3	- 9	27
Cleason	/ 1	0		/ 1	- 1	1
Cordano	- 5	- 8	40	- 5	/ 1	5
Greene	/ 6	/ 2	12	/ 6	/ 1	6
Haley	- 2	0		- 2	- 1	2
Robert	/ 2	- 2	4	/ 2	- 1	2
LaChapelle	/ 1	0		/ 1	- 3	3
Lyden	- 2	- 1	2	- 2	- 3	6
McDougal	/ 1	/ 1	1	/ 1	- 1	1
McKenley	/ 2	- 1	2	/ 2	/ 5	10
McLellan	- 2	- 1	2	- 2	/ 7	14
Spencer	/ 5	/ 3	15	/ 5	/ 9	45
Spencer	0	/ 2		0	- 9	
Thompson	- 2	/ 1	2	- 2	/ 1	2
			/189 -25			/193 -34
			- 25			- 34
			/164			/159

CORRELATION

$$\frac{164}{21 \times 3.99 \times 3.07} = .64$$

$$\frac{159}{21 \times 3.99 \times 4.56} = .42$$



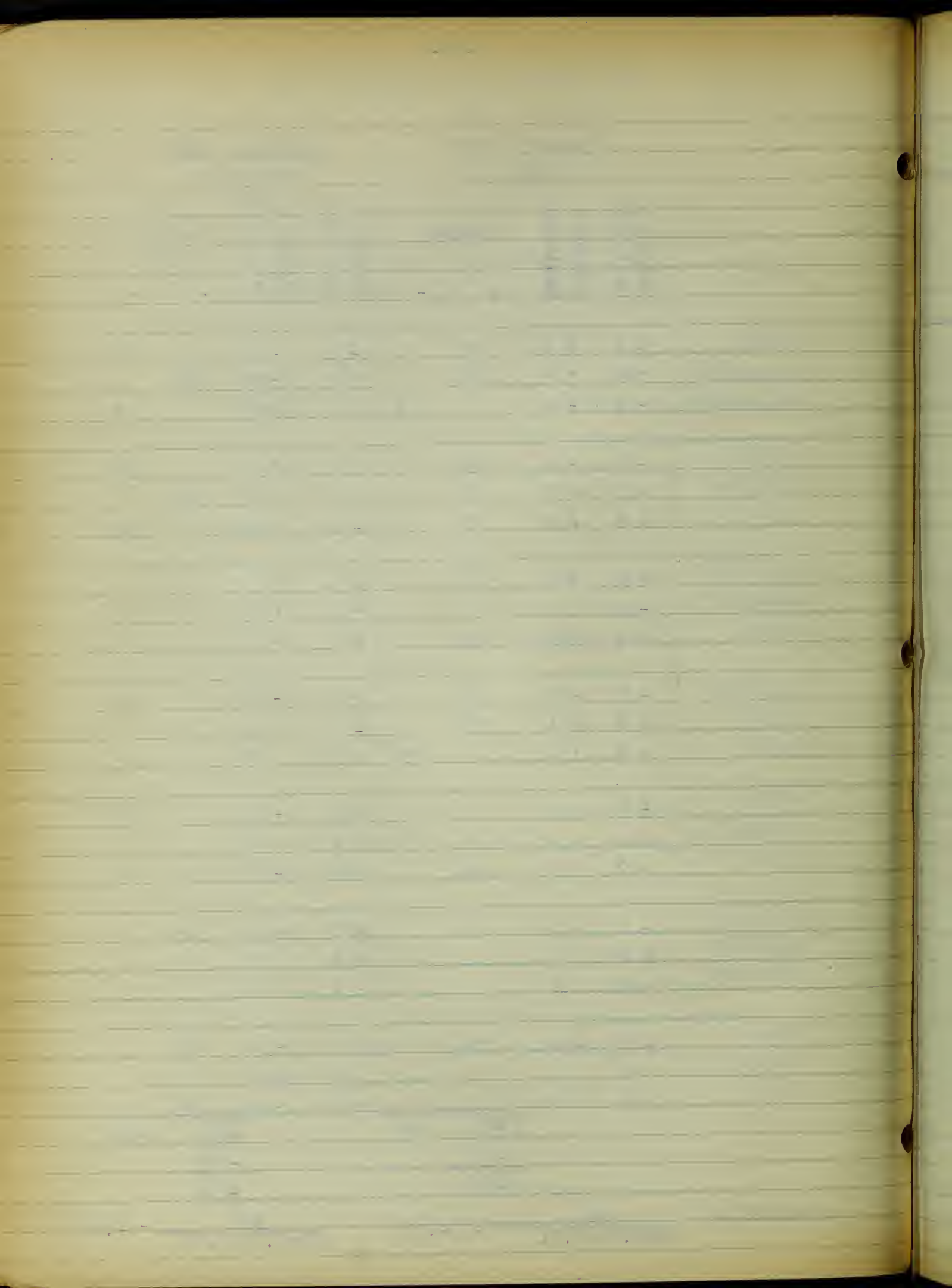
PRODUCTS MOMENTS

	Terman 4 and Terman 9				Terman 4 and Terman 10			
	Terman 4 Deviation	Terman 9 Deviation	Product		Terman 4 Deviation	Terman 10 Deviation	Product	
	/		-		/		-	
Adams	/ 6	/ 1	6		/ 6	- 2	12	
Ammons	-10	- 2	20		-10	-12	120	
Bell	- 1	/ 1		1	- 1	/ 2		2
Bell	- 7	- 3	21		- 7	/ 4		28
Carroll	- 3	- 2	6		- 3	- 4	12	
Carroll	/ 3	/ 2	6		/ 3	- 6		18
Carroll	/ 3	/ 2	6		/ 3	0		
Carroll	- 3	0			- 3	/ 2		6
Carroll	/ 1	/ 1	1		/ 1	- 4		4
Carroll	- 5	- 1	5		- 5	/ 2		10
Carroll	/ 6	/ 1	6		/ 6	0		
Carroll	- 2	/ 2		4	- 2	0		
Carroll	/ 2	0			/ 2	- 4		8
Carroll	/ 1	- 1		1	/ 1	0		
Carroll	- 2	- 2	4		- 2	/ 2		4
Carroll	/ 1	0			/ 1	/ 6	6	
Carroll	/ 2	0			/ 2	0		
Carroll	- 2	0			- 2	0		
Carroll	/ 5	/ 3	15		/ 5	/ 4	20	
Carroll	0	0			0	/ 4		
Carroll	- 2	0			- 2	- 4	8	
			/96	-6			/166	-92
			- 6				- 92	
			/90				/ 74	

CORRELATION

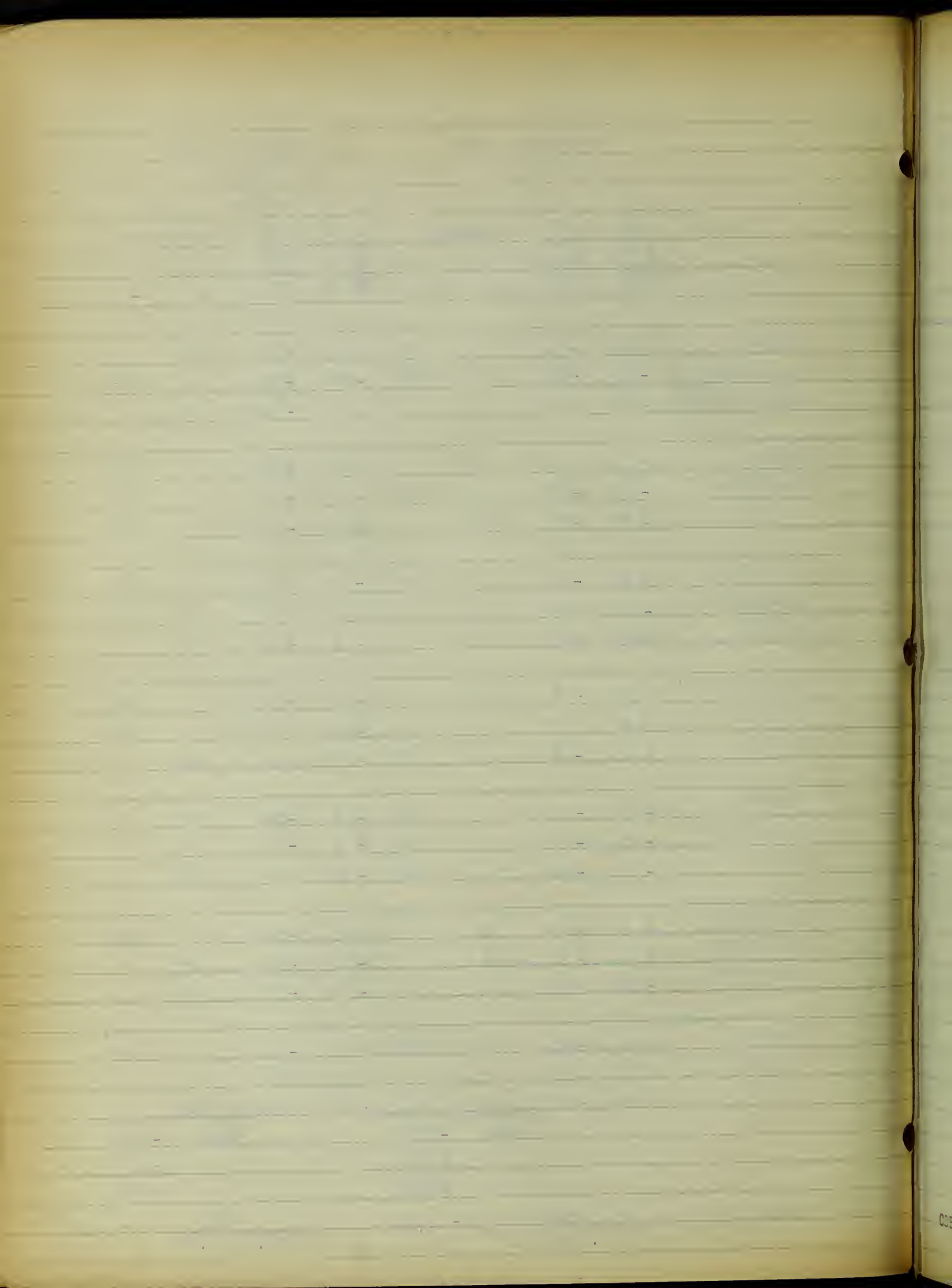
$$\frac{90}{21 \times 3.99 \times 1.51} = .71$$

$$\frac{74}{21 \times 3.99 \times 4.07} = .22$$



PRODUCTS MOMENTS

Terman 4 and Hoke 1					Terman 4 and Hoke 2				
	Terman 4 Deviation	Hoke 1 Deviation	Product			Terman 4 Deviation	Hoke 2 Deviation	Product	
			/	-				/	-
Adcock	/ 6	- 1		6	/ 6	/ 3	18		
Annunzio	-10	/12		120	-10	/13		130	
Ballantine	- 1	0			- 1	- 8	8		
Belkin	- 7	0			- 7	/13		91	
Cardillo	- 3	/ 3		9	- 3	/ 7		21	
Cornett	/ 3	/ 9	27		/ 3	- 9		27	
Daniel	/ 3	- 2		6	/ 3	- 8		24	
Dandrea	- 3	- 2	6		- 3	- 3	9		
Glosson	/ 1	/ 1	1		/ 1	/ 1	1		
Glendon	- 5	- 2	10		- 5	/ 5		25	
Green	/ 6	0			/ 6	- 3		18	
Haley	- 2	/ 2		4	- 2	- 9	18		
Harbert	/ 2	- 4		8	/ 2	/10	20		
LeMarshall	/ 1	- 1		1	/ 1	/ 9	9		
Lyden	- 2	/ 8		16	- 2	- 8	16		
MacDougal	/ 1	/ 6	6		/ 1	- 4		4	
McGawley	/ 2	/ 9	18		/ 2	/ 9	18		
McF-lash	- 2	- 3	6		- 2	- 3	6		
Spencer	/ 5	-18		90	/ 5	- 6		30	
Stokey	0	-20			0	/ 3			
Uhlir	- 2	/ 1		2	- 2	- 7	14		
			/74	-262				/137	-370
			/ 74					/137	
			-188					-233	
CORRELATION			-188	= -.30	-233			= -.37	
			21x7.51x3.99		21x7.48x3.99				



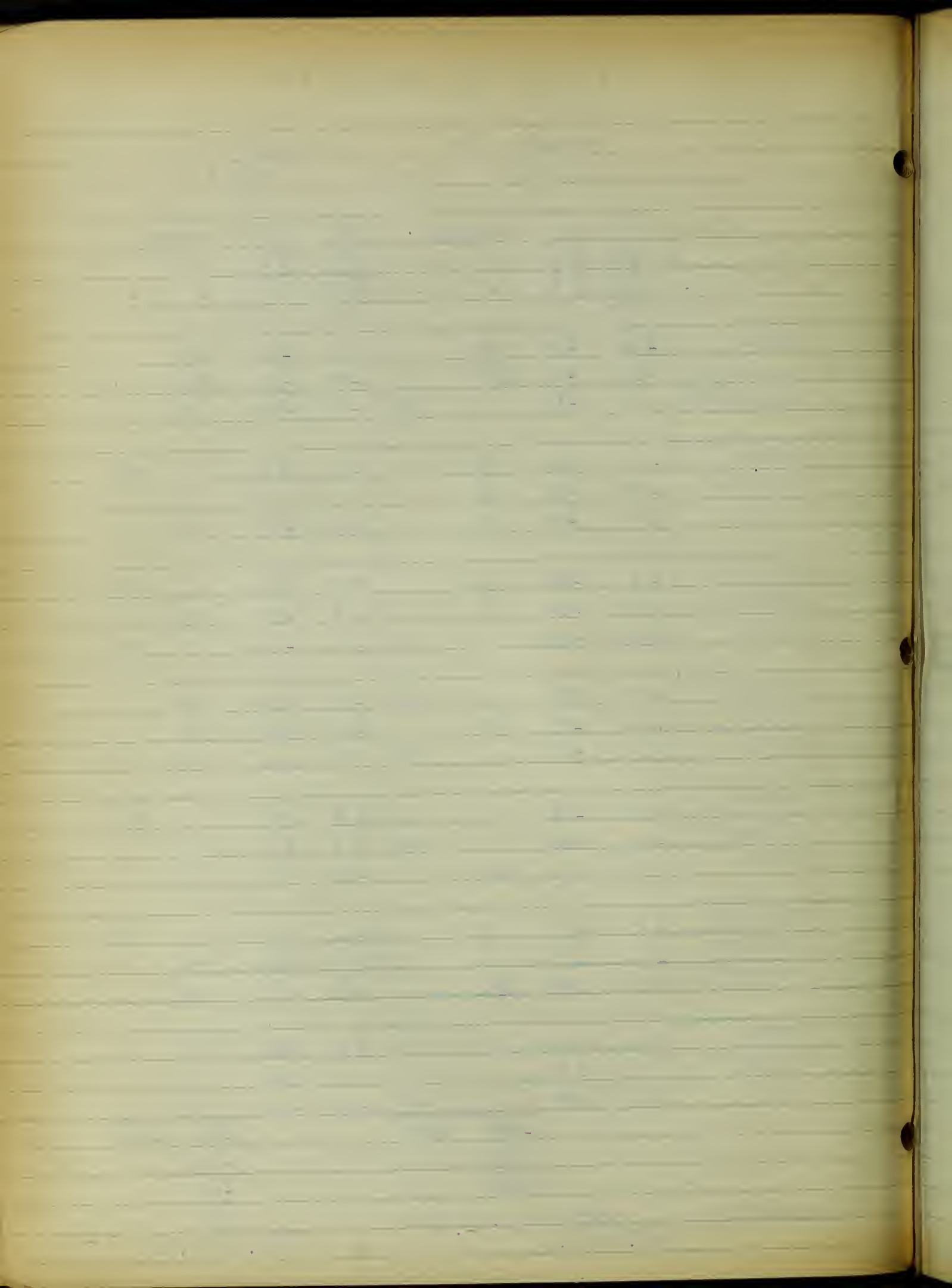
PRODUCTS MOMENTS

	Terman 4 and Hoke 3				Terman 4 and Hoke 4			
	Terman 4 Deviation	Hoke 3 Deviation	Product		Terman 4 Deviation	Hoke 4 Deviation	Product	
	/		-		/		-	
Adcock	/ 6	/10	60		/ 6	/21	126	
Amundson	-10	-18	180		-10	-23	230	
Bellows	- 1	/12	12		- 1	-17	17	
Belted	- 7	-13	91		- 7	/ 5	35	
Farville	- 3	-18	54		- 3	- 1	3	
Gordon	/ 3	/27	81		/ 3	/ 3	9	
Gunnell's	/ 3	/22	66		/ 3	-11	33	
Hartman	- 3	-18	54		- 3	-11	33	
Hinson	/ 1	- 8	8		/ 1	-23	23	
Johnson	- 5	/10	50		- 5	-17	85	
Greene	/ 6	/15	90		/ 6	/ 3	18	
Haley	- 2	/ 2	4		- 2	- 1	2	
Hubert	/ 2	/ 2	4		/ 2	- 9	18	
McCoy	/ 1	-13	13		/ 1	/ 9	9	
Lyden	- 2	- 8	16		- 2	- 1	2	
McDougal	/ 1	/ 2	2		/ 1	- 1	1	
McGowan	/ 2	- 3	6		/ 2	/17	34	
McIntosh	- 2	-18	36		- 2	- 7	14	
McNulty	/ 5	- 3	15		/ 5	/27	135	
Stewart	0	/ 2			0	-23		
White	- 2	/22	44		- 2	- 1	2	
			/734	-152			/719	-110
			-152				-110	
			/582				/609	

CORRELATION

$$\frac{582}{21 \times 3.99 \times 13.9} = .50$$

$$\frac{609}{21 \times 3.99 \times 14.02} = .52$$



PRODUCTS MOMENTS

Terman 4 and
Hoke 5

Terman 4 and
Hoke 6

Terman 4 Deviation	Hoke 5 Deviation	Product		Terman 5 Deviation	Hoke 6 Deviation	Product	
		/	-			/	-
/ 6	/16	96		/ 6	/16	96	
-10	-19	190		-10	-28	280	
- 1	/ 3		3	- 1	/16		16
- 7	- 8	56		- 7	/20		140
- 3	-18	54		- 3	/20		60
/ 3	/11	33		/ 3	/ 8	24	
/ 3	/19	57		/ 3	/20	60	
- 3	/ 2		6	- 3	/20		60
/ 1	- 8		8	/ 1	-38		38
- 5	/ 2		10	- 5	0		
/ 6	/ 4	24		/ 6	/ 6	36	
- 2	/24		48	- 2	-20	40	
/ 2	- 4		8	/ 2	-38		76
/ 1	- 3		3	/ 1	/16	16	
- 2	-18	36		- 2	-18	36	
/ 1	- 2		2	/ 1	/20	20	
/ 2	/15	30		/ 2	/20	40	
- 2	- 6	12		- 2	-20	40	
/ 5	/14	70		/ 5	-12		60
0	-10			0	-22		
- 2	-18	36		- 2	/12		24
		/694	-88			/688	-474
		- 88				-474	
		/606				/214	
CORRELATION	606	= / .57		214	= / .12		
	21x12.71x3.99			21x20.51x3.99			

PRODUCTS MOMENTS

Terman 4 and Hoke 7				Terman 4 and Tressler			
Terman 4 Deviation	Hoke 7 Deviation	Product		Terman 4 Deviation	Tressler Deviation	Product	
		/	-			/	-
Adams	/ 6	/ 7	42	/ 6	/ 5	30	
Alvord	-10	/ 2	20	-10	-31	310	
Altman	- 1	/ 8	8	- 1	/13		13
Baker	- 7	/13	91	- 7	/13		91
Barnes	- 3	/ 1	3	- 3	- 1	3	
Benson	/ 3	/ 7	21	/ 3	/ 5	15	
Boyd	/ 3	/ 4	12	/ 3	/17	51	
Brown	- 3	/11	33	- 3	/ 5		15
Brown	/ 1	/10	10	/ 1	- 9		9
Brown	- 5	/22	110	- 5	-23	115	
Brown	/ 6	/ 5	30	/ 6	/13	78	
Brown	- 2	- 8	16	- 2	/16		32
Brown	/ 2	-61	122	/ 2	- 3		6
Brown	/ 1	/17	17	/ 1	- 6		6
Brown	- 2	/ 2	4	- 2	-11	22	
Brown	/ 1	- 4	4	/ 1	-19		19
Brown	/ 2	/ 9	18	/ 2	/21	42	
Brown	- 2	- 3	6	- 2	/ 2		4
Brown	/ 5	-12	60	/ 5	/ 8	40	
Brown	0	/ 3		0	-10		
Brown	- 2	/ 4	8	- 2	-10	20	
		/172	-463		/696	-195	
		/172			-195		
		-291			/501		
CORRELATION	-291			501	/501		
	21x16.09x3.99	=	-.22	21x13.67x3.99	=	/.47	

PRODUCTS MOMENTS

	Terman 5 and Terman 6			Terman 5 and Terman 7		
	Terman 5 Deviation	Terman 6 Deviation	Product	Terman 5 Deviation	Terman 7 Deviation	Product
	/	/	/ -	/	/	/ -
Andrew	/ 1	/ 9	9	/ 1	/ 1	1
Annalslate	- 7	- 3	21	- 7	- 9	63
Bailanting	/ 5	/ 5	25	/ 5	0	
Balkin	/ 3	/ 1	3	/ 3	/ 2	6
Bardillo	- 7	/ 3	21	- 7	/ 1	7
Borson	- 5	/ 11	55	- 5	/ 2	10
Bumalffe	/ 5	/ 7	35	/ 5	/ 4	20
Cellarbo	/ 7	/ 1	7	/ 7	- 1	7
Gilham	- 5	- 5	25	- 5	0	
Giordano	/ 7	- 5	35	/ 7	- 8	56
Grenas	/ 3	/ 7	21	/ 3	/ 2	6
Halay	/ 1	- 11	11	/ 1	0	
Hebert	/ 3	/ 3	9	/ 3	- 2	6
LaDapolla	- 3	- 1	3	- 3	0	
Liden	/ 1	- 1	1	/ 1	- 1	1
McDonald	- 5	- 7	35	- 5	/ 1	5
McGaughey	- 5	/ 3	15	- 5	- 1	5
McIntosh	- 5	- 9	45	- 5	- 1	5
Spencer	- 3	/ 3	9	- 3	/ 3	9
Stoness	- 1	- 11	11	- 1	/ 2	2
Walla	/ 5	/ 1	5	/ 5	/ 1	5
			/ 244 -147			/ 111 -103
			-147			-103
CORRELATION	97	/ 97	= / .16	8	/ 8	= / .03
	21x4.60x6.16			21x4.60x3.07		

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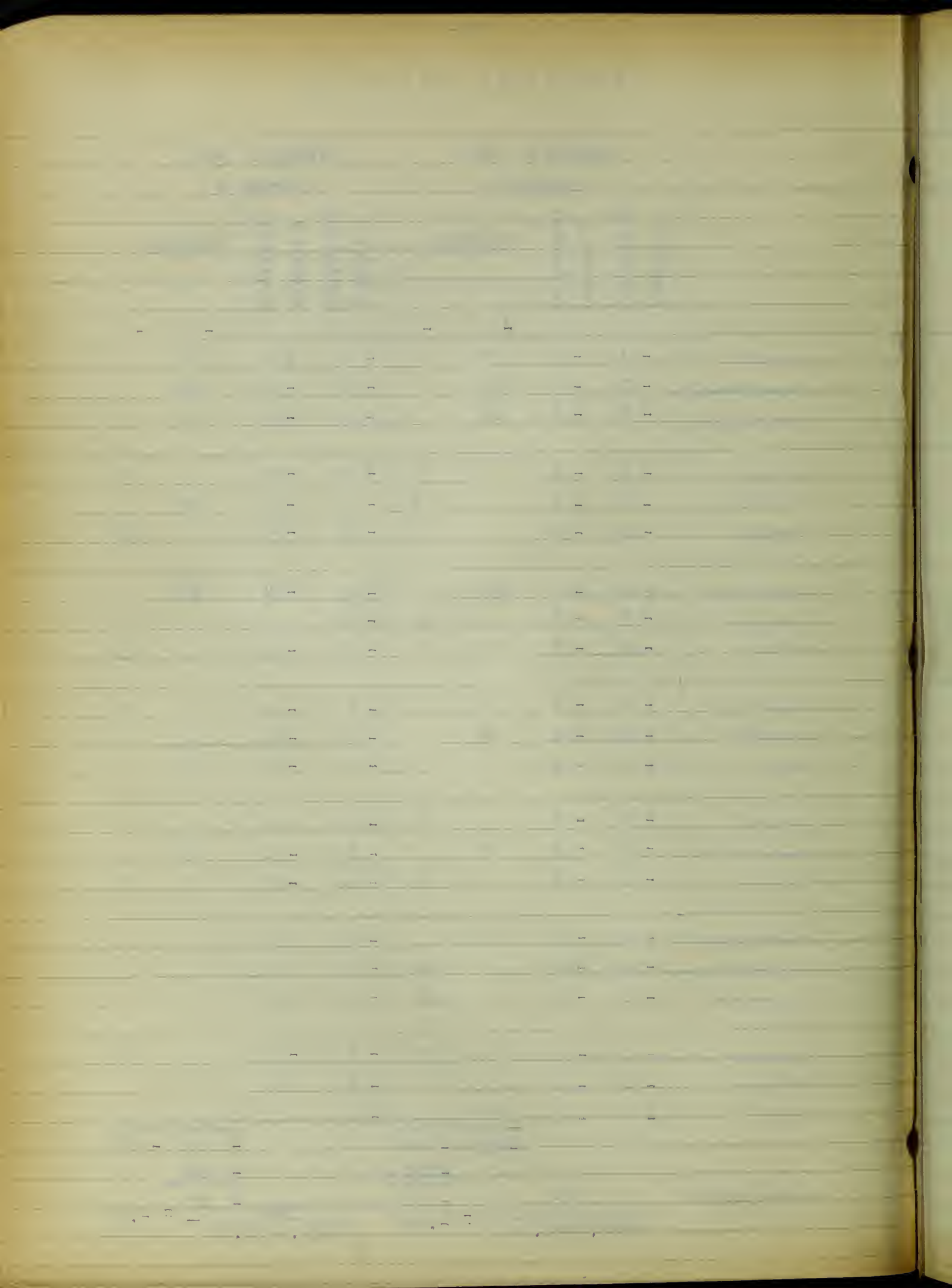
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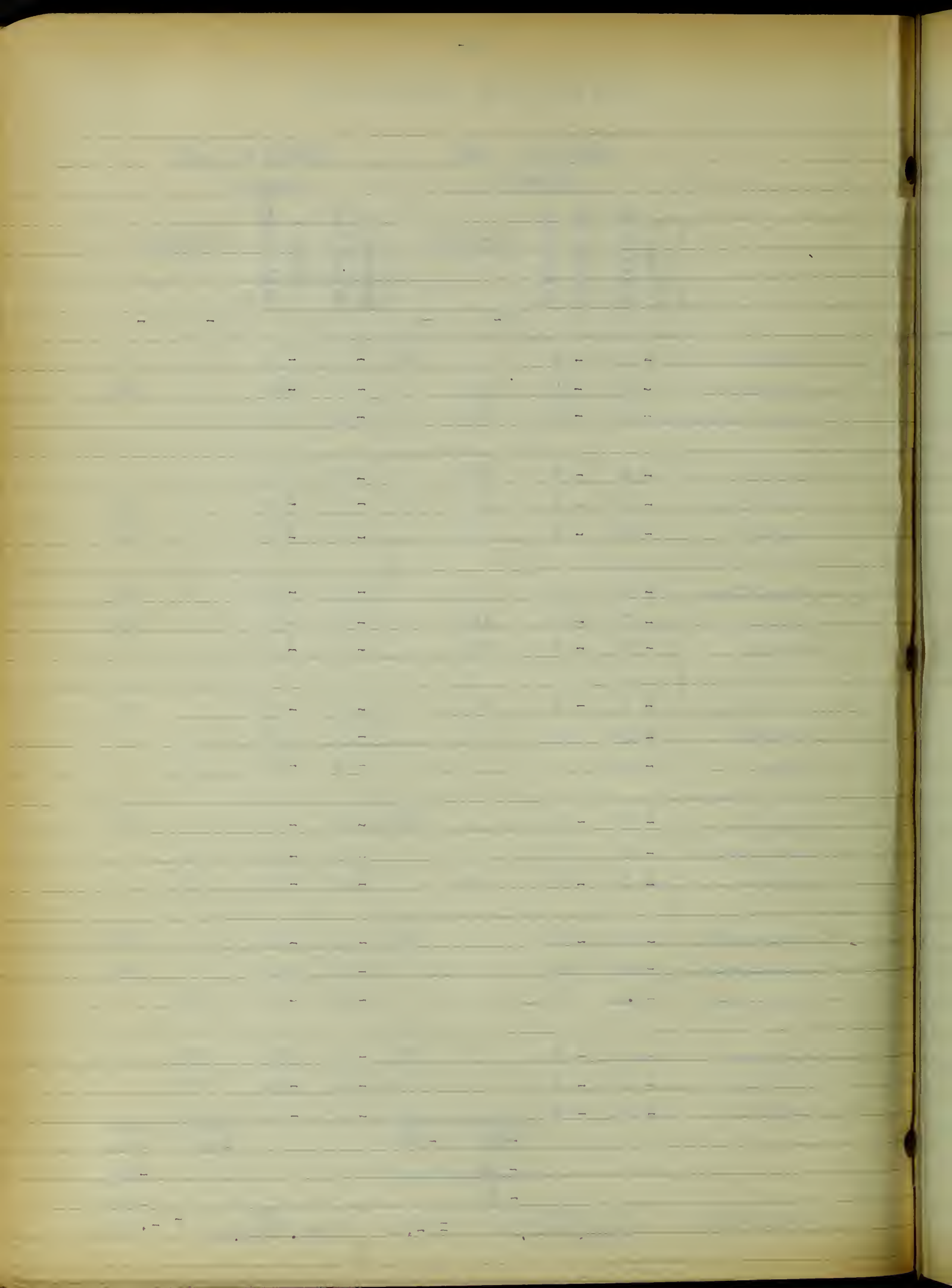
PRODUCTS MOMENTS

	Terman 5 and Terman 8			Terman 5 and Terman 9		
	Terman 5 Deviation	Terman 8 Deviation	Product	Terman 5 Deviation	Terman 9 Deviation	Product
	/	/	-	/	/	-
Adams	/ 1	/ 7	7	/ 1	/ 1	1
Amundson	- 7	- 3	21	- 7	- 2	14
Baldwin	/ 5	/ 3	15	/ 5	/ 1	5
Bell	/ 3	- 1	3	/ 3	- 3	9
Burdette	- 7	/ 1	7	- 7	- 2	14
Cornell	- 5	/ 1	5	- 5	/ 2	10
Cornell	/ 5	/ 5	25	/ 5	/ 2	10
Decker	/ 7	- 9	63	/ 7	0	
Gibson	- 5	- 1	5	- 5	/ 1	5
Glendon	/ 7	/ 1	7	/ 7	- 1	7
Graves	/ 3	/ 1	3	/ 3	/ 1	3
Haley	/ 1	- 1	1	/ 1	/ 2	2
Robert	/ 3	- 1	3	/ 3	0	
LaBelle	- 3	- 3	9	- 3	- 1	3
Lyden	/ 1	- 3	3	/ 1	- 2	2
McDonald	- 5	- 1	5	- 5	0	
McGraw	- 5	/ 5	25	- 5	0	
McIntosh	- 5	/ 7	35	- 5	0	
Spencer	- 3	/ 9	27	- 3	/ 3	9
Stobner	- 1	- 9	9	- 1	0	
Wells	/ 5	/ 1	5	/ 5	0	
			/111 -172			/ 52 - 42
			/111			- 42
CORRELATION		61	- 61			10 / 10 = / .07
			21x4.60x4.56 = -.14			21x4.60x1.51



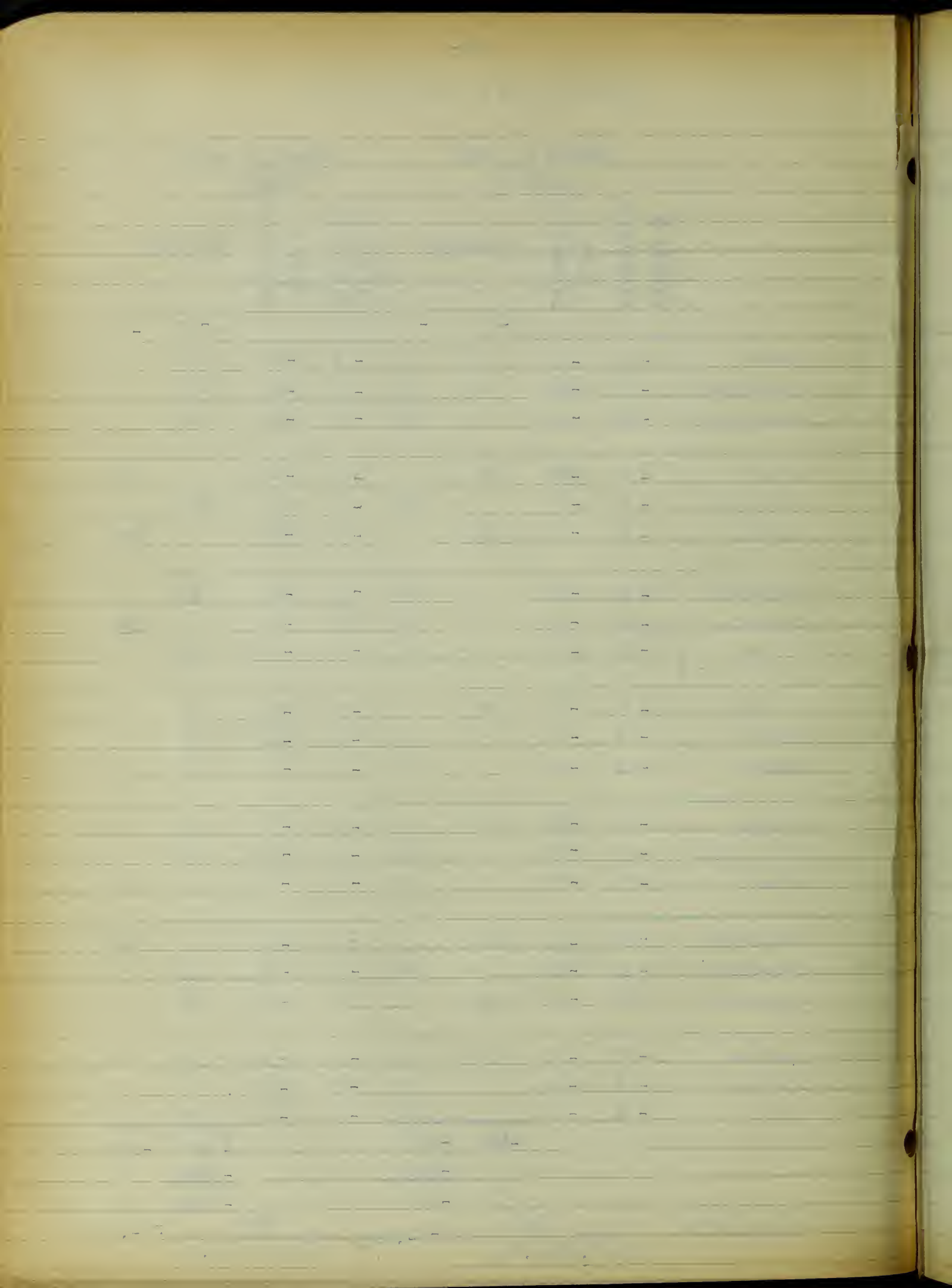
PRODUCTS MOMENTS

	Terman 5 and Terman 10			Terman 5 and Hoke 1		
	Terman 5 Deviation	Terman 10 Deviation	Product	Terman 5 Deviation	Hoke 1 Deviation	Product
	/		/ -	/		/ -
Kidwell	/ 1	- 2	2	/ 1	- 1	1
Annandale	- 7	-12	84	- 7	/12	84
Ballantine	/ 5	/ 2	10	/ 5	0	
Belkin	/ 3	/ 4	12	/ 3	0	
Bordillo	- 7	- 4	28	- 7	/ 3	21
Borson	- 5	- 6	30	- 5	/ 9	45
Bumitta	/ 5	0		/ 5	- 2	10
Callahan	/ 7	/ 2	14	/ 7	- 2	14
Gibson	- 5	- 4	20	- 5	/ 1	5
Gibson	/ 7	/ 2	14	/ 7	- 2	14
Greene	/ 3	0		/ 3	0	
Heley	/ 1	0		/ 1	/ 2	2
Robert	/ 3	- 4	12	/ 3	- 4	12
LaDunelle	- 3	0		- 3	- 1	3
Lyden	/ 1	/ 2	2	/ 1	/ 8	8
MacDougal	- 5	/ 6	30	- 5	/ 6	30
McGawley	- 5	0		- 5	/ 9	45
Sainton	- 5	0		- 5	- 3	15
Spencer	- 3	/ 4	12	- 3	-18	54
Stebner	- 1	/ 4	4	- 1	-20	20
Wells	/ 5	- 4	20	/ 5	/ 1	5
			/154 - 80			/107 -281
			- 80			/107
			/ 74			-174
CORRELATION		74	$21 \times 4.60 \times 4.07 = / .19$		174	$21 \times 7.51 \times 4.60 = -.24$



PRODUCTS MOMENTS

	Terman 5 and Hoke 2				Terman 5 and Hoke 3			
	Terman 5 Deviation	Hoke 2 Deviation	Product		Terman 5 Deviation	Hoke 3 Deviation	Product	
			/	-			/	-
Adcock	/ 1	/ 3	3		/ 1	/10	10	
Annunzio	- 7	/13		91	- 7	-18	126	
Ballantine	/ 5	- 8		40	/ 5	/12	60	
Belkin	/ 3	/13	39		/ 3	-13		39
Cardillo	- 7	/ 7		49	- 7	-18	126	
Corsan	- 5	- 9	45		- 5	/27		135
Cummitt	/ 5	- 8		40	/ 5	/22	110	
Doherty	/ 7	- 3		21	/ 7	-18		126
Gibson	- 5	/ 1		5	- 5	- 8	40	
Giordano	/ 7	/ 5	35		/ 7	/10	70	
Gross	/ 3	- 3		9	/ 3	/15	45	
Haley	/ 1	- 9		9	/ 1	/ 2	2	
Hebert	/ 3	/10	30		/ 3	/ 2	6	
LaChapelle	- 3	/ 9		27	- 3	-13	39	
Lyden	/ 1	- 8		8	/ 1	- 8		8
MacDougal	- 5	- 4	20		- 5	/ 2		10
McCauley	- 5	/ 9		45	- 5	- 3	15	
McIntosh	- 5	- 3	15		- 5	-18	90	
Spencer	- 3	- 6	18		- 3	- 3	9	
Stebner	- 1	/ 3		3	- 1	/ 2		2
Uhlir	/ 5	- 7		35	/ 5	/22	110	
			/205	-382			/ 858	-320
			/205				- 320	
			-177				/ 538	
CORRELATION		177		= -.24		538		= / .40
		21x7.48x4.60				21x13.90x4.60		



PRODUCTS MOMENTS

Terman 5 and Hoke 4				Terman 5 and Hoke 5			
Terman 5 Deviation	Hoke 4 Deviation	Product		Terman 5 Deviation	Hoke 5 Deviation	Product	
/		/	-	/		/	-
Arrows	/ 1	/21	21	/ 1	/16	16	
Ammoniate	- 7	-23	161	- 7	-19	133	
Bellington	/ 5	-17	85	/ 5	/ 3	15	
Bellin	/ 3	/ 5	15	/ 3	- 8		24
Cardillo	- 7	- 1	7	- 7	-18	126	
Copson	- 5	/ 3	15	- 5	/11		55
Cowdiffe	/ 5	-11	55	/ 5	/19	95	
Dalseron	/ 7	-11	77	/ 7	/ 2	14	
Gibson	- 5	-23	115	- 5	- 8	40	
Glendon	/ 7	-17	119	/ 7	/ 2	14	
Greene	/ 3	/ 3	9	/ 3	/ 4	12	
Halcy	/ 1	- 1	1	/ 1	/24	24	
Robert	/ 3	- 9	27	/ 3	- 4		12
LaChapelle	- 3	/ 9	27	- 3	- 3	9	
Lyden	/ 1	- 1	1	/ 1	-18		18
Frank-oyed	- 5	- 1	5	- 5	- 2	10	
McQuilley	- 5	/17	85	- 5	/15		75
McIntosh	- 5	- 7	35	- 5	- 6	30	
McGowan	- 3	/27	81	- 3	/14		42
McIntosh	- 1	-23	23	- 1	-10	10	
Miller	/ 5	- 1	5	/ 5	-18		90
		/401	-578			/548	-316
		/401				-316	
		-177				/232	

CORRELATION

$$\frac{-177}{21 \times 14.02 \times 4.60} = -.13$$

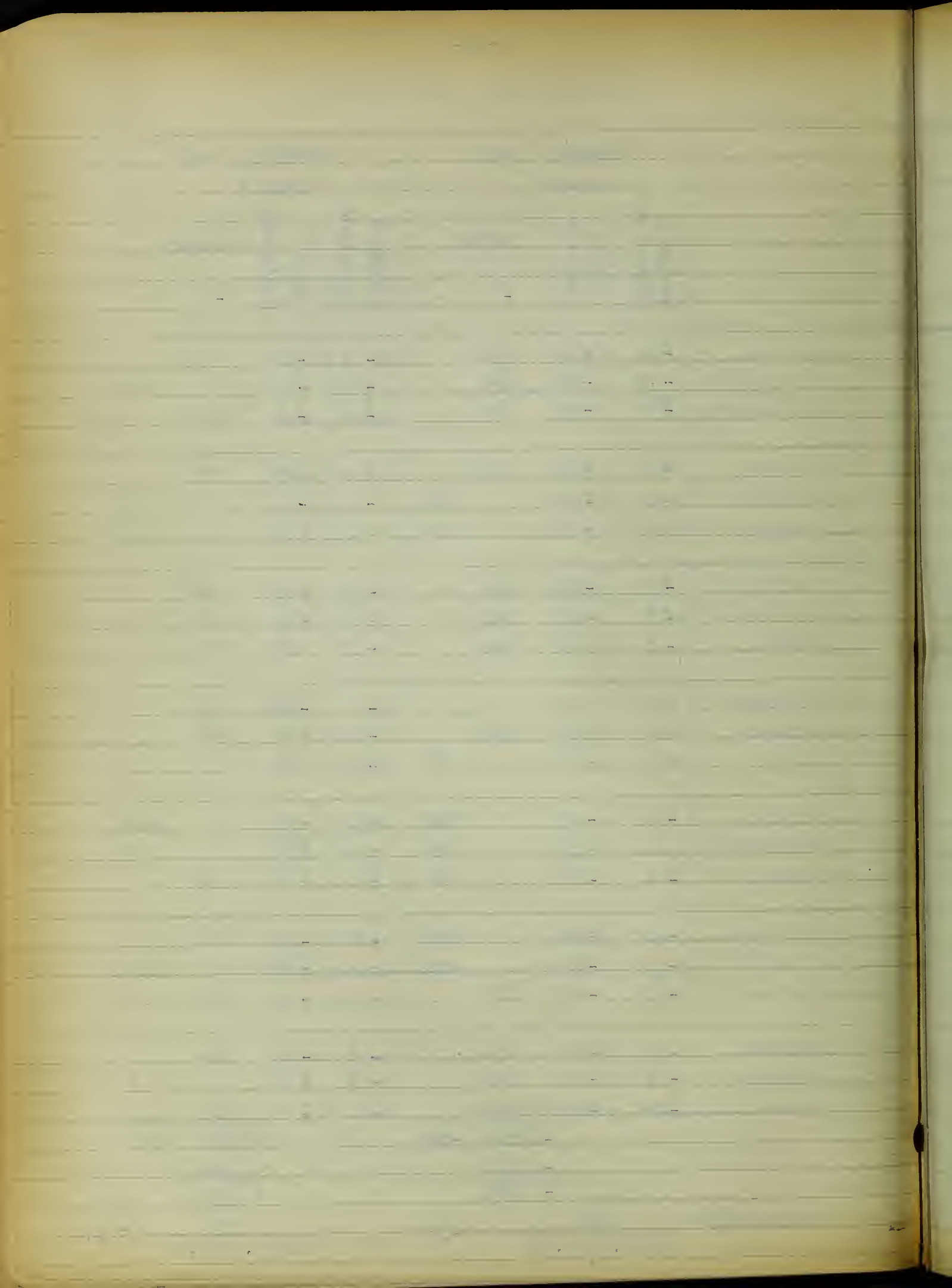
$$\frac{232}{21 \times 12.71 \times 4.60} = /.19$$

PRODUCTS MOMENTS

	Terman 5 and Hoke 6			Terman 5 and Hoke 7		
	Terman 5 Deviation	Hoke 6 Deviation	Product	Terman 5 Deviation	Hoke 7 Deviation	Product
	/		-	/		-
Adcock	/ 1	/16	16	/ 1	/ 7	7
Anderson	- 7	-28	196	- 7	/ 2	14
Ballantine	/ 5	/16	80	/ 5	/ 8	40
Bolton	/ 3	/20	60	/ 3	/13	39
Capelle	- 7	/20	140	- 7	/ 1	7
Cornish	- 5	/ 8	40	- 5	/ 7	35
Cummins	/ 5	/20	100	/ 5	/ 4	20
Deane	/ 7	/20	140	/ 7	/11	77
Hinson	- 5	-38	190	- 5	-10	50
Johnson	/ 7	0		/ 7	/22	154
Greene	/ 3	/ 6	18	/ 3	/ 5	15
Kelley	/ 1	-20	20	/ 1	- 8	8
Robert	/ 3	-38	114	/ 3	-61	183
McChapelle	- 3	/16	48	- 3	/17	51
Lyden	/ 1	-18	18	/ 1	/ 2	2
McLaughlin	- 5	/20	100	- 5	- 4	20
McMurray	- 5	/20	100	- 5	/ 9	45
McIntosh	- 5	-20	100	- 5	- 3	15
Spencer	- 3	-12	36	- 3	-12	36
Stromer	- 1	-22	22	- 1	/ 3	3
Wells	/ 5	/12	60	/ 5	/ 4	20
		/ 1018	-580		/ 495	-346
		- 580			- 346	
		/ 438			/ 149	

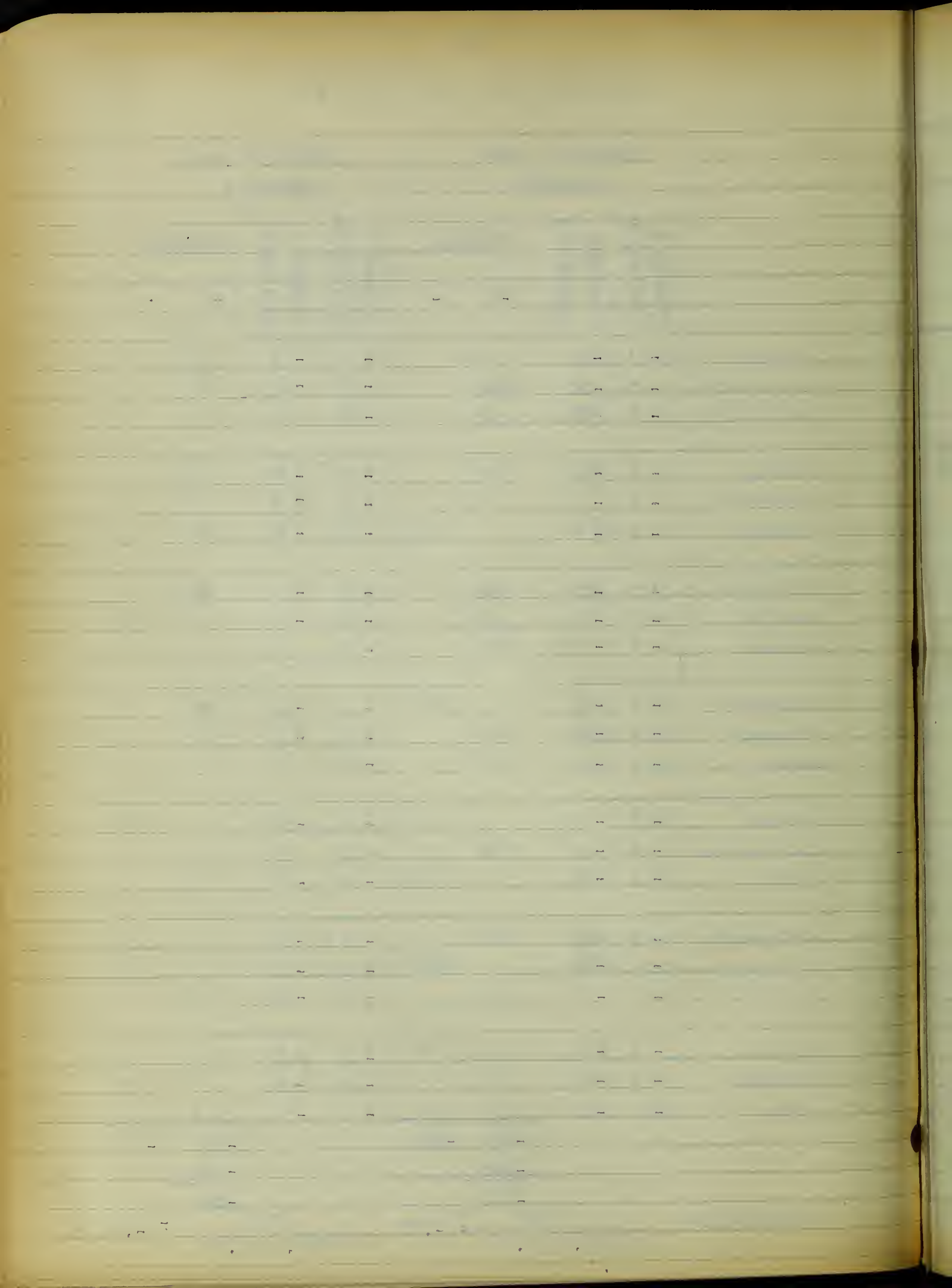
CORRELATION $\frac{438}{21 \times 20.51 \times 4.60} = .22$

$\frac{149}{21 \times 16.09 \times 4.60} = .10$



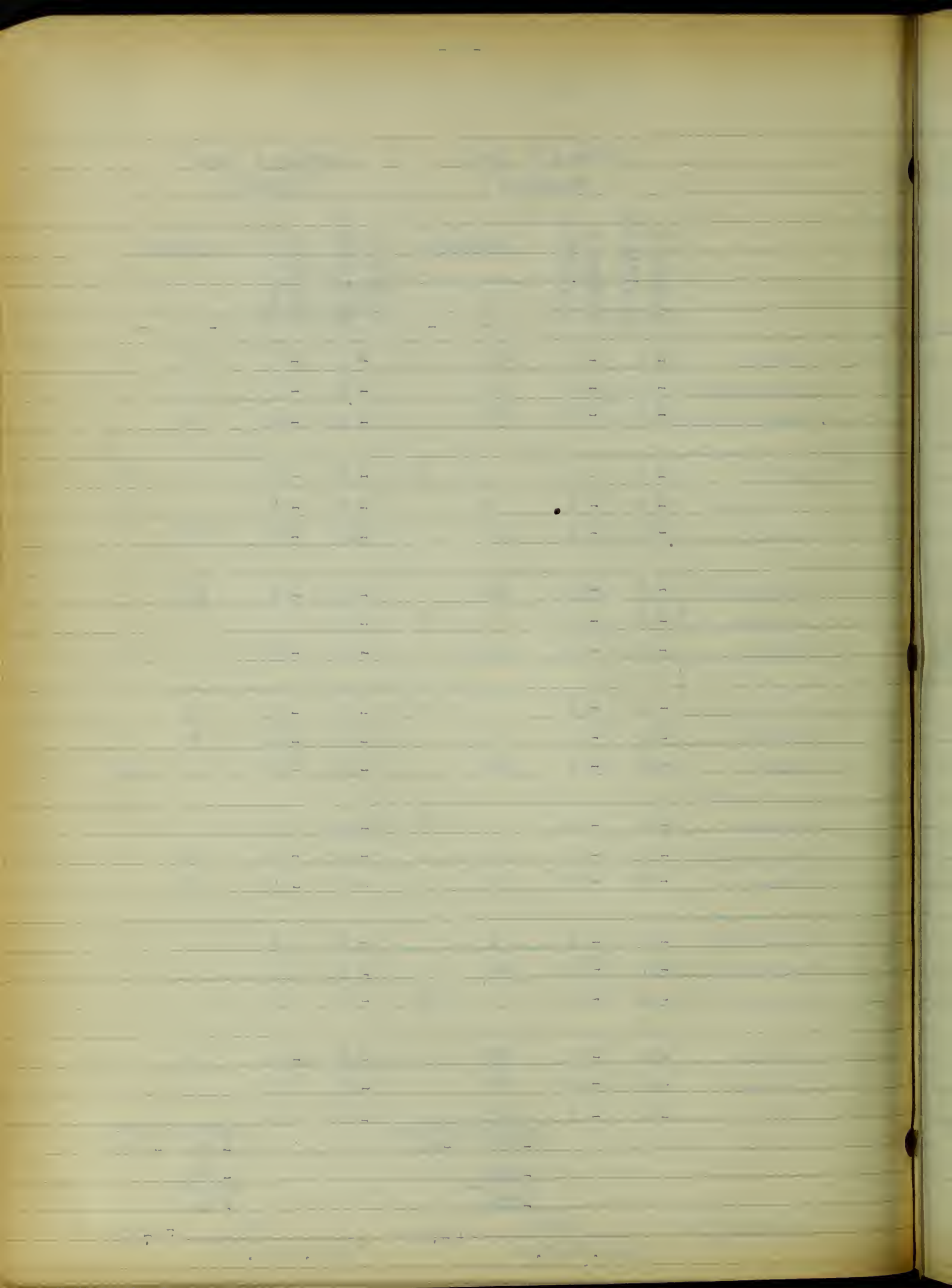
PRODUCTS MOMENTS

	Terman 5 and Tressler			Terman 6 and Terman 7		
	Terman 5 Deviation	Tressler Deviation	Product	Terman 6 Deviation	Terman 7 Deviation	Product
	/ 1	/ 5	5	/ 9	/ 1	9
Amundson	- 7	-31	217	- 3	- 9	27
Bullington	/ 5	/13	65	/ 5	0	
Colkin	/ 3	/13	39	/ 1	/ 2	2
Cardillo	- 7	- 1	7	/ 3	/ 1	3
Gordon	- 5	/ 5	25	/11	/ 2	22
Gunniff	/ 5	/17	85	/ 7	/ 4	28
DeVargo	/ 7	/ 5	35	/ 1	- 1	1
Olson	- 5	- 9	45	- 5	0	
Giordano	/ 7	-23	161	- 5	- 8	40
Greene	/ 3	/13	39	/ 7	/ 2	14
Waley	/ 1	/16	16	-11	0	
Hobart	/ 3	- 3	9	/ 3	- 2	6
LaDapelle	- 3	- 6	18	- 1	0	
Liden	/ 1	-11	11	- 1	- 1	1
Langford	- 5	-19	95	- 7	/ 1	7
McCauley	- 5	/21	105	/ 3	- 1	3
McIntosh	- 5	- 2	10	- 9	- 1	9
Spencer	- 3	/ 8	24	/ 3	/ 3	9
Stetson	- 1	-10	10	-11	/ 2	22
Wright	/ 5	-10	50	/ 1	/ 1	1
			/686 -385			/165 -39
			/385			- 39
			/301			/126
CORRELATION	301			126		
	21x13.67x4.60			21x6.16x3.07		
	.23			.32		



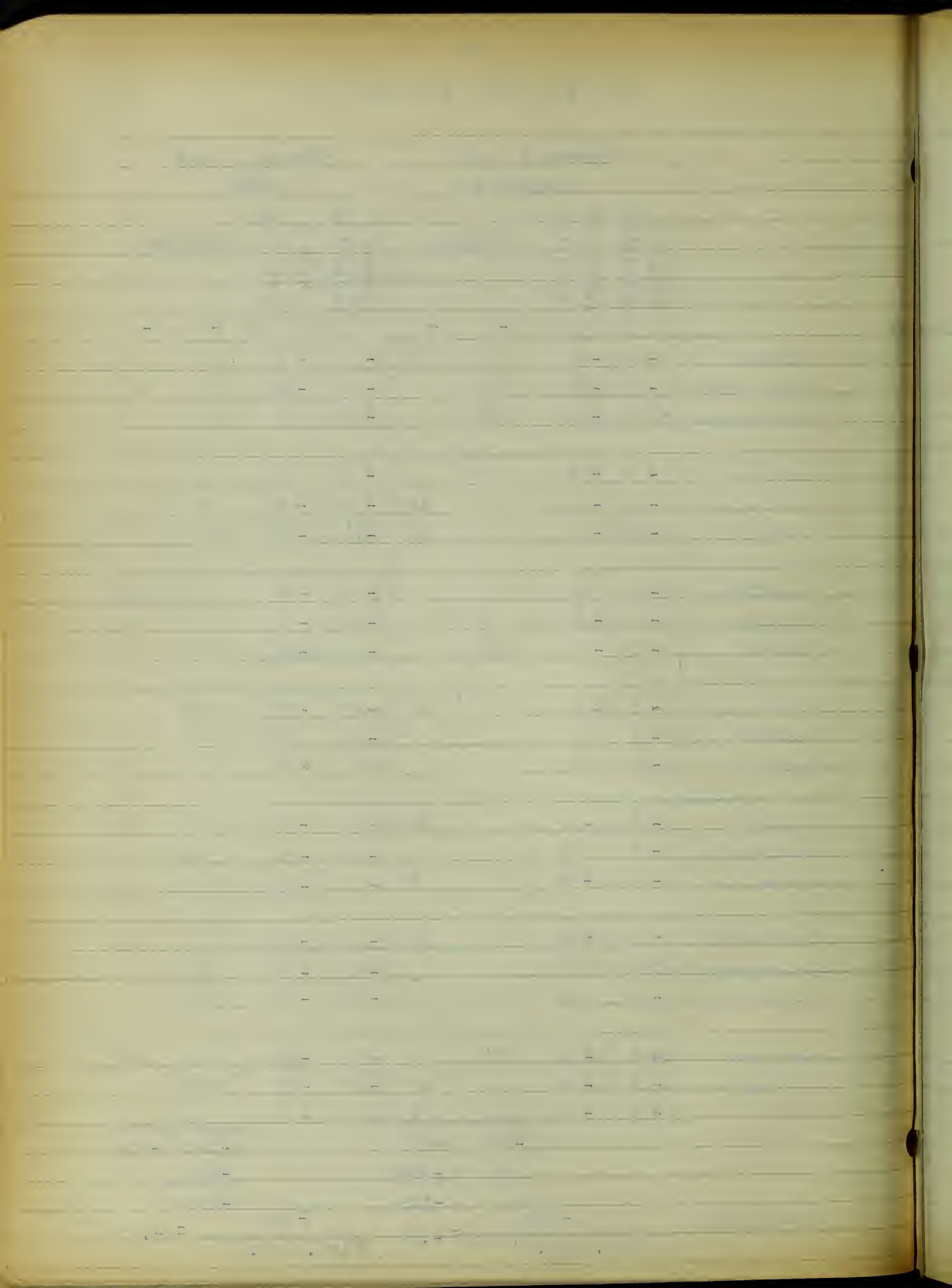
PRODUCTS MOMENTS

	Terman 6 and Terman 8			Terman 6 and Terman 9		
	Terman 6 Deviation	Terman 8 Deviation	Product	Terman 6 Deviation	Terman 9 Deviation	Product
	/	/	-	/	/	-
Adeock	/ 9	/ 7	63	/ 9	/ 1	9
Annunziata	- 3	- 3	9	- 3	- 2	6
Bellantone	/ 5	/ 3	15	/ 5	/ 1	5
Bellini	/ 1	- 1	1	/ 1	- 3	3
Cerdillo	/ 3	/ 1	3	/ 3	- 2	6
Corson	/ 11	/ 1	11	/ 11	/ 2	22
Cumiffo	/ 7	/ 5	35	/ 7	/ 2	14
Demarco	/ 1	- 9	9	/ 1	0	
Gibson	- 5	- 1	5	- 5	/ 1	5
Gioviano	- 5	/ 1	5	- 5	- 1	5
Greene	/ 7	/ 1	7	/ 7	/ 1	7
Palay	- 11	- 1	11	- 11	/ 2	22
Rebert	/ 3	- 1	3	/ 3	0	
LaChapelle	- 1	- 3	3	- 1	- 1	1
LeDon	- 1	- 3	3	- 1	- 2	2
MacDougal	- 7	- 1	7	- 7	0	
McClung	/ 3	/ 5	15	/ 3	0	
McIntosh	- 9	/ 7	63	- 9	0	
Spencer	/ 3	/ 9	27	/ 3	/ 3	9
Stalman	- 11	- 9	99	- 11	0	
Wille	/ 1	/ 1	1	/ 1	0	
			/ 314 - 81			/ 80 - 36
			- 81			- 36
			/ 233			/ 44
CORRELATION	233 21x6.16x4.56 = / .39			44 21x6.16x1.51 = / .23		



PRODUCTS MOMENTS

	Terman 6 and Terman 10				Terman 6 and Hoke 1			
	Terman 6 Deviation	Terman 10 Deviation	Product		Terman 6 Deviation	Hoke 1 Deviation	Product	
	/		/	-	/		/	-
Adcock	/ 9	- 2		18	/ 9	- 1		9
Ammons	- 3	-12	36		- 3	/12	36	
Ballantine	/ 5	/ 2	10		/ 5	0		
Belkin	/ 1	/ 4	4		/ 1	0		
Cardillo	/ 3	- 4		12	/ 3	/ 3	9	
Corson	/11	- 6		66	/11	/ 9	99	
Cumiffo	/ 7	0			/ 7	- 2		14
Deane	/ 1	/ 2	2		/ 1	- 2		2
Gibson	- 5	- 4	20		- 5	/ 1		5
Giordano	- 5	/ 2		10	- 5	- 2	10	
Greene	/ 7	0			/ 7	0		
Haley	-11	0			-11	/ 2		22
Hebert	/ 3	- 4		12	/ 3	- 4		12
Leitch	- 1	0			- 1	- 1	1	
Lyden	- 1	/ 2		2	- 1	/ 8		8
MacDonald	- 7	/ 6		42	- 7	/ 6		42
McIntosh	/ 3	0			/ 3	/ 9	27	
McIntosh	- 9	0			- 9	- 3	27	
Spencer	/ 3	/ 4	12		/ 3	-18		54
Stenner	-11	/ 4		44	-11	-20	220	
Wells	/ 1	- 4		4	/ 1	/ 1	1	
			/ 84	-210			/394	-204
				/ 84			-204	
				-126			/190	
CORRELATION		- 126				/ 190		
			21x6.16x4.07	- .24				
						21x6.16x7.51		= / .20

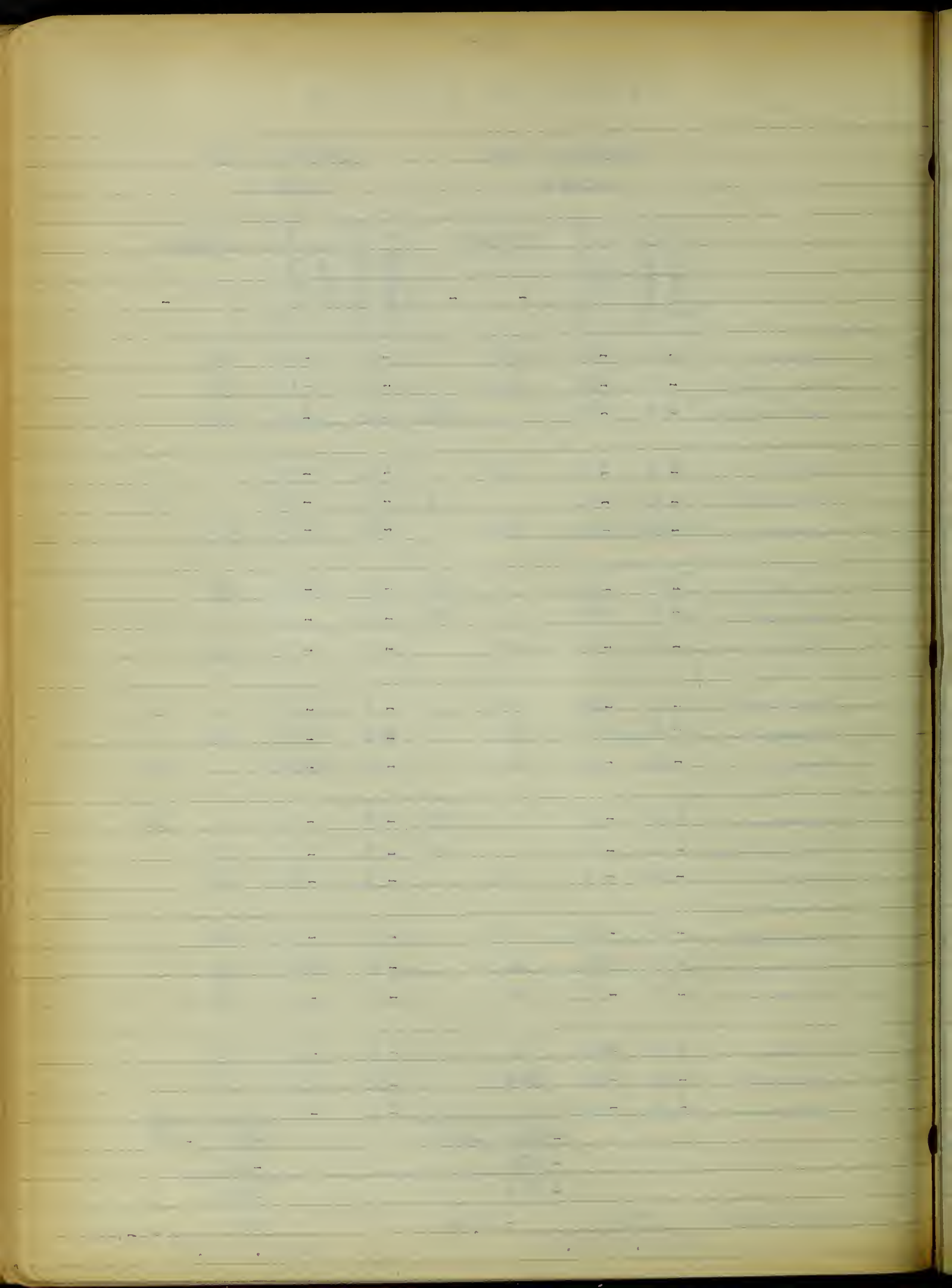


PRODUCTS MOMENTS

	Terman 6 and Hoke 2			Terman 6 and Hoke 3		
	Terman 6 Deviation	Hoke 2 Deviation	Product	Terman 6 Deviation	Hoke 3 Deviation	Product
	/ 9	/ 3	27	/ 9	/10	90
Amundson	- 3	/13	39	- 3	-18	54
Bellman	/ 5	- 8	40	/ 5	/12	60
Wilkie	/ 1	/13	13	/ 1	-13	13
Cardillo	/ 3	/ 7	21	/ 3	-18	54
Goodson	/11	- 9	99	/11	/27	297
Woolf	/ 7	- 8	56	/ 7	/22	154
Woolf	/ 1	- 3	3	/ 1	-18	18
Gibson	- 5	/ 1	5	- 5	- 8	40
Giordano	- 5	/ 5	25	- 5	/10	50
Greene	/ 7	- 3	21	/ 7	/15	105
Heley	-11	- 9	99	-11	/ 2	22
Robert	/ 3	/10	30	/ 3	/ 2	6
LaChapelle	- 1	/ 9	9	- 1	-13	13
Leban	- 1	- 8	8	- 1	- 8	8
LaChapelle	- 7	- 4	28	- 7	/ 2	14
LaChapelle	/ 3	/ 9	27	/ 3	- 3	9
LaChapelle	- 9	- 3	27	- 9	-18	162
Spencer	/ 3	- 6	18	/ 3	- 3	9
Spencer	-11	/ 3	33	-11	/ 2	22
Wille	/ 1	- 7	7	/ 1	/22	22
			/280 -355			/1011 -211
			/280			- 211
			- 75			/ 800
CORRELATION		-75	= -.08		800	= / .44
		21x7.48x6.16			21x13.90x6.16	

PRODUCTS MOMENTS

	Terman 6 and Hoke 4				Terman 6 and Hoke 5			
	Terman 6 Deviation	Hoke 4 Deviation	Product		Terman 6 Deviation	Hoke 5 Deviation	Product	
	/		/	-	/		/	-
Adcock	/ 9	/21	189		/ 9	/16	144	
Amundson	- 3	-23	69		- 3	-19	57	
Ballentine	/ 5	-17		85	/ 5	/ 3	15	
Bellin	/ 1	/ 5	5		/ 1	- 8		8
Cardillo	/ 3	- 1		3	/ 3	-18		54
Cordon	/11	/ 3	33		/11	/11	121	
Cumiffo	/ 7	-11		77	/ 7	/19	133	
DeMopco	/ 1	-11		11	/ 1	- 1		1
Gibson	- 5	-23	115		- 5	- 8	40	
Giordano	- 5	-17	85		- 5	/ 2		10
Greene	/ 7	/ 3	21		/ 7	/ 4	28	
Halcy	-11	- 1	11		-11	/24		264
Robert	/ 3	- 9		27	/ 3	- 4		12
Laurepolie	- 1	/ 9		9	- 1	- 3	3	
Liden	- 1	- 1	1		- 1	-18	18	
Macdonald	- 7	- 1	7		- 7	- 2	14	
Macdonald	/ 3	/17	51		/ 3	/15	45	
McDonan	- 9	- 7	63		- 9	- 6	54	
Spencer	/ 3	/27	81		/ 3	/14	42	
Stoner	-11	-23	253		-11	-10	110	
Willow	/ 1	- 1		1	/ 1	-18		18
			/ 984	-213			/824	-367
			- 213				-367	
			/ 771				/457	
CORRELATION	771				457			
	21x14.02x 6.16				21x12.71x6.16			
	= / .43				= / .28			



PRODUCTS MOMENTS

Terman 6 and Hoke 6				Terman 6 and Hoke 7			
Terman 6 Deviation	Hoke 6 Deviation	Product		Terman 6 Deviation	Hoke 7 Deviation	Product	
/		-		/		-	
Adcock	/ 9	/16	144	/ 9	/ 7	63	
Adams	- 3	-28	84	- 3	/ 2		6
Adams	/ 5	/16	80	/ 5	/ 8	40	
Adams	/ 1	/20	20	/ 1	/13	13	
Adams	/ 3	/20	60	/ 3	/ 1	3	
Adams	/11	/ 8	88	/11	/ 7	77	
Adams	/ 7	/20	140	/ 7	/ 4	28	
Adams	/ 1	/20	20	/ 1	/11	11	
Adams	- 5	-38	190	- 5	-10	50	
Adams	- 5	0		- 5	/22		110
Adams	/ 7	/ 6	42	/ 7	/ 5	35	
Adams	-11	-20	220	-11	- 8	88	
Adams	/ 3	-38	114	/ 3	-61		183
Adams	- 1	/16	16	- 1	/17		17
Adams	- 1	-18	18	- 1	/ 2		2
Adams	- 7	/20	140	- 7	- 4	28	
Adams	/ 3	/20	60	/ 3	/ 9	27	
Adams	- 9	-20	180	- 9	- 3	27	
Adams	/ 3	-12	36	/ 3	-12		36
Adams	-11	-22	242	-11	/ 3		33
Adams	/ 1	/12	12	/ 1	/ 4	4	
		/1600	-306			/ 494	-387
		- 306				- 387	
		/1294				/ 107	
						107	
CORRELATION		1294	= / .49			107	= / .009
		21x20.51x6.16				21x16.09x6.16	

PRODUCTS MOMENTS

Terman 6 and Tressler			Terman 7 and Terman 8		
Terman 6 Deviation	Tressler Deviation	Product	Terman 7 Deviation	Terman 8 Deviation	Product
		/ -			/ -
/ 9	/ 5	45	/ 1	/ 7	7
- 3	-31	93	- 9	- 3	27
/ 5	/13	65	0	/ 3	
/ 1	/13	13	/ 2	- 1	2
/ 3	- 1	3	/ 1	/ 1	1
/11	/ 5	55	/ 2	/ 1	2
/ 7	/17	119	/ 4	/ 5	20
/ 1	/ 5	5	- 1	- 9	9
- 5	- 9	45	0	- 1	
- 5	-23	115	- 8	/ 1	8
/ 7	/13	91	/ 2	/ 1	2
-11	/16	176	0	- 1	
/ 3	- 3	9	- 2	- 1	2
- 1	- 6	6	0	- 3	
- 1	-11	11	- 1	- 3	3
- 7	-19	133	/ 1	- 1	1
/ 3	/21	63	- 1	/ 5	5
- 9	/ 2	18	- 1	/ 7	7
/ 3	/ 8	24	/ 3	/ 9	27
-11	-10	110	/ 2	- 9	18
/ 1	-10	10	/ 1	/ 1	1
		/993 -216			/101 -41
		-216			- 41
		/777			/ 60
CORRELATION		/ 777			/ 60
		21x13.67x6.16 = / .44			21x3.07x4.56 = / .20

PRODUCTS MOMENTS

	Terman 7 and Terman 9			Terman 7 and Terman 10		
	Terman 7 Deviation	Terman 9 Deviation	Product	Terman 7 Deviation	Terman 10 Deviation	Product
	/	/	/ -	/	/	/ -
Adams	/ 1	/ 1	1	/ 1	- 2	2
Adams	- 9	- 2	18	- 9	-12	108
Adams	0	/ 1		0	/ 2	
Adams	/ 2	- 3	6	/ 2	/ 4	8
Adams	/ 1	- 2	2	/ 1	- 4	4
Adams	/ 2	/ 2	4	/ 2	- 6	12
Adams	/ 4	/ 2	8	/ 4	0	
Adams	- 1	0		- 1	/ 2	2
Adams	0	/ 1		0	- 4	
Adams	- 8	- 1	8	- 8	/ 2	16
Adams	/ 2	/ 1	2	/ 2	0	
Adams	0	/ 2		0	0	
Adams	- 2	0		- 2	- 4	8
Adams	0	- 1		0	0	
Adams	- 1	- 2	2	- 1	/ 2	2
Adams	/ 1	0		/ 1	/ 6	6
Adams	- 1	0		- 1	0	
Adams	- 1	0		- 1	0	
Adams	/ 3	/ 3	9	/ 3	/ 4	12
Adams	/ 2	0		/ 2	/ 4	8
Adams	/ 1	0		/ 1	- 4	4
	/ 52 - 8			/ 150 - 42		
	- 8			- 42		
	/ 44			/ 108		
CORRELATION	21x3.07x1.51 = / .45			21x3.07x4.07 = / .41		

PRODUCTS MOMENTS

Terman 7 and Hoke 1				Terman 7 and Hoke 2			
Terman 7 Deviation	Hoke 1 Deviation	Product		Terman 7 Deviation	Hoke 2 Deviation	Product	
/		/	-	/		/	-
1	- 1	1		1	3	3	
- 9	12	108		- 9	13	17	
0	0			0	- 8		
2	0			2	13	26	
1	3	3		1	7	7	
2	9	18		2	- 9	18	
4	- 2	8		4	- 8	32	
- 1	- 2	2		- 1	- 3	3	
0	1			0	1		
- 8	- 2	16		- 8	5	40	
2	0			2	- 3	6	
0	2			0	- 9		
- 2	- 4	8		- 2	10	20	
0	- 1			0	9		
- 1	8	8		- 1	- 8	8	
1	6	6		1	- 4	4	
- 1	9	9		- 1	9	9	
- 1	- 3	3		- 1	- 3	3	
3	-18	54		3	- 6	18	
2	-20	40		2	3	6	
1	1	1		1	- 7	7	
		57	-228			56	-261
		57				56	
		-171				-205	
CORRELATION		-171	= -.35			-205	= -.43
		21x7.51x3.07				21x7.48x3.07	

Received of _____

the sum of _____

for _____

PRODUCTS MOMENTS

Terman 7 and Hoke 3				Terman 7 and Hoke 4			
Terman 7 Deviation	Hoke 3 Deviation	Product		Terman 7 Deviation	Hoke 4 Deviation	Product	
/	-	/	-	/	-	/	-
/ 1	/ 10	10		/ 1	/ 21	21	
- 9	- 18	162		- 9	- 23	207	
0	/ 12			0	- 17		
/ 2	- 13	26		/ 2	/ 5	10	
/ 1	- 18	18		/ 1	- 1		1
/ 2	/ 27	54		/ 2	/ 3	6	
/ 4	/ 22	88		/ 4	- 11		44
- 1	- 18	18		- 1	- 11	11	
0	- 8			0	- 23		
- 8	/ 10	80		- 8	- 17	136	
/ 2	/ 15	30		/ 2	/ 3	6	
0	/ 2			0	- 1		
- 2	/ 2	4		- 2	- 9	18	
0	- 13			0	/ 9		
- 1	- 8	8		- 1	- 1	1	
/ 1	/ 2	2		/ 1	- 1		1
- 1	- 3	3		- 1	/ 17		17
- 1	- 18	18		- 1	- 7	7	
/ 3	- 3	9		/ 3	/ 27	81	
/ 2	/ 2	4		/ 2	- 23		46
/ 1	/ 22	22		/ 1	- 1		1
		/ 419	- 137			/ 504	- 110
		- 137				- 110	
		/ 282				/ 394	
CORRELATION		/ 282	= / .31			/ 394	= / .44
		21x13.90x3.07				21x14.02x3.07	

PRODUCTS MOMENTS

Terman 7 and Hoke 5				Terman 7 and Hoke 6			
Terman 7 Deviation	Hoke 5 Deviation	Product		Terman 7 Deviation	Hoke 6 Deviation	Product	
		/	-			/	-
Adams	/ 1	/16	16	/ 1	/16	16	
Adams	- 9	-19	171	- 9	-28	252	
Adams	0	/ 3		0	/16		
Adams	/ 2	- 8	16	/ 2	/20	40	
Adams	/ 1	-18	18	/ 1	/20	20	
Adams	/ 2	/11	22	/ 2	/ 8	16	
Adams	/ 4	/19	76	/ 4	/20	80	
Adams	- 1	/ 2	2	- 1	/20	20	
Adams	0	- 8		0	-38		
Adams	/ 8	/ 2	16	- 8	0		
Adams	/ 2	/ 4	8	/ 2	/ 6	12	
Adams	0	/24		0	-20		
Adams	- 2	- 4	8	- 2	-38	76	
Adams	0	- 3		0	/16		
Adams	- 1	-18	18	- 1	-18	18	
Adams	/ 1	- 2	2	/ 1	/20	20	
Adams	- 1	/15	15	- 1	/20	20	
Adams	- 1	- 6	6	- 1	-20	20	
Adams	/ 3	/14	42	/ 3	-12	36	
Adams	/ 2	-10	20	/ 2	-22	44	
Adams	/ 1	-18	18	/ 1	/12	12	
		/ 367	-107		/582	-120	
		- 107			-120		
		/ 260			/462		
CORRELATION	/260			/462			
	21x12.71x3.07		/ .32	21x20.51x3.07			/ .35

PRODUCTS MOMENTS

	Terman 7 and Hoke 7			Terman 7 and Tressler		
	Terman 7 Deviation	Hoke 7 Deviation	Product	Terman 7 Deviation	Tressler Deviation	Product
	/ 1	/ 7	7	/ 1	/ 5	5
	- 9	/ 2	18	- 9	-31	279
	0	/ 8		0	/13	
	/ 2	/13	26	/ 2	/13	26
	/ 1	/ 1	1	/ 1	- 1	1
	/ 2	/ 7	14	/ 2	/ 5	10
	/ 4	/ 4	16	/ 4	/17	68
	- 1	-11	11	- 1	/ 5	5
	0	-10		0	- 9	
	- 8	/22	176	- 8	-23	184
	/ 2	/ 5	10	/ 2	/13	26
	0	- 8		0	/16	
	- 2	-61	122	- 2	- 3	6
	0	/17		0	- 6	
	- 1	/ 2	2	- 1	-11	11
	/ 1	- 4	4	/ 1	-19	19
	- 1	/ 9	9	- 1	/21	21
	- 1	- 3	3	- 1	- 2	2
	/ 3	-12	36	/ 3	/ 8	24
	/ 2	/ 3	6	/ 2	-10	20
	/ 1	/ 4	4	/ 1	-10	10
		/ 220	-245		/ 641	- 76
		/220			- 76	
		- 25			/ 565	
CORRELATION		-25	-21x16.09x3.07 = -.02		/565	-21x13.67x3.07 = / .64

Country	Year	Value	Unit
China	2000	1.0	1000
China	2001	1.0	1000
China	2002	1.0	1000
China	2003	1.0	1000
China	2004	1.0	1000
China	2005	1.0	1000
China	2006	1.0	1000
China	2007	1.0	1000
China	2008	1.0	1000
China	2009	1.0	1000
China	2010	1.0	1000
China	2011	1.0	1000
China	2012	1.0	1000
China	2013	1.0	1000
China	2014	1.0	1000
China	2015	1.0	1000
China	2016	1.0	1000
China	2017	1.0	1000
China	2018	1.0	1000
China	2019	1.0	1000
China	2020	1.0	1000
China	2021	1.0	1000
China	2022	1.0	1000
China	2023	1.0	1000
China	2024	1.0	1000
China	2025	1.0	1000
China	2026	1.0	1000
China	2027	1.0	1000
China	2028	1.0	1000
China	2029	1.0	1000
China	2030	1.0	1000
China	2031	1.0	1000
China	2032	1.0	1000
China	2033	1.0	1000
China	2034	1.0	1000
China	2035	1.0	1000
China	2036	1.0	1000
China	2037	1.0	1000
China	2038	1.0	1000
China	2039	1.0	1000
China	2040	1.0	1000
China	2041	1.0	1000
China	2042	1.0	1000
China	2043	1.0	1000
China	2044	1.0	1000
China	2045	1.0	1000
China	2046	1.0	1000
China	2047	1.0	1000
China	2048	1.0	1000
China	2049	1.0	1000
China	2050	1.0	1000
China	2051	1.0	1000
China	2052	1.0	1000
China	2053	1.0	1000
China	2054	1.0	1000
China	2055	1.0	1000
China	2056	1.0	1000
China	2057	1.0	1000
China	2058	1.0	1000
China	2059	1.0	1000
China	2060	1.0	1000
China	2061	1.0	1000
China	2062	1.0	1000
China	2063	1.0	1000
China	2064	1.0	1000
China	2065	1.0	1000
China	2066	1.0	1000
China	2067	1.0	1000
China	2068	1.0	1000
China	2069	1.0	1000
China	2070	1.0	1000
China	2071	1.0	1000
China	2072	1.0	1000
China	2073	1.0	1000
China	2074	1.0	1000
China	2075	1.0	1000
China	2076	1.0	1000
China	2077	1.0	1000
China	2078	1.0	1000
China	2079	1.0	1000
China	2080	1.0	1000
China	2081	1.0	1000
China	2082	1.0	1000
China	2083	1.0	1000
China	2084	1.0	1000
China	2085	1.0	1000
China	2086	1.0	1000
China	2087	1.0	1000
China	2088	1.0	1000
China	2089	1.0	1000
China	2090	1.0	1000
China	2091	1.0	1000
China	2092	1.0	1000
China	2093	1.0	1000

Year	2000	2001	2002	2003
2000	100	100	100	100
2001	100	100	100	100
2002	100	100	100	100
2003	100	100	100	100

1. What is the purpose of the study?

PRODUCTS MOMENTS

Terman 8 and Terman 9				Terman 8 and Terman 10					
Terman 8	Deviation	Terman 9	Deviation	Product	Terman 8	Deviation	Terman 10	Deviation	Product
				/ -					/ -
Adams	/ 7	/ 1		7	/ 7	- 2			14
Albright	- 3	- 2		6	- 3	-12	36		
Callantine	/ 3	/ 1		3	/ 3	/ 2	6		
Clark	- 1	- 3		3	- 1	/ 4			4
Conley	/ 1	- 2		2	/ 1	- 4			4
Cowan	/ 1	/ 2		2	/ 1	- 6			6
DeWitt	/ 5	/ 2		10	/ 5	0			
Dennis	- 9	0			- 9	/ 2			18
Dixon	- 1	/ 1		1	- 1	- 4	4		
Flanagan	/ 1	- 1		1	/ 1	/ 2	2		
Greene	/ 1	/ 1		1	/ 1	0			
Hay	- 1	/ 2		2	- 1	0			
Robert	- 1	0			- 1	- 4	4		
LaChapelle	- 3	- 1		3	- 3	0			
Lyden	- 3	- 2		6	- 3	/ 2			6
MacDougal	- 1	0			- 1	/ 6			6
McGulley	/ 5	0			/ 5	0			
McIntosh	/ 7	0			/ 7	0			
Sponson	/ 9	/ 3		27	/ 9	/ 4	36		
Stelmer	- 9	0			- 9	/ 4			36
Tolin	/ 1	0			/ 1	- 4			4
				/ 68 - 6					/ 88 - 98
				- 6					/ 88
									- 10
CORRELATION				$\frac{62 \times 62}{21 \times 4.56 \times 1.51} = .43$					$\frac{-10}{21 \times 4.56 \times 4.07} = -.03$

PRODUCTS MOMENTS

Terman 8 and Hoke 1				Terman 8 and Hoke 2			
Terman 8 Deviation	Hoke 1 Deviation	Product		Terman 8 Deviation	Hoke 2 Deviation	Product	
/		/	-	/		/	-
Adams	/ 7	- 1	7	/ 7	/ 3	21	
Adams	- 3	/ 12	36	- 3	/ 13		39
Adams	/ 3	0		/ 3	- 8		24
Adams	- 1	0		- 1	/ 13		13
Adams	/ 1	/ 3	3	/ 1	/ 7	7	
Adams	/ 1	/ 9	9	/ 1	- 9		9
Adams	/ 5	- 2	10	/ 5	- 8		40
Adams	- 9	- 2	18	- 9	- 3	27	
Adams	- 1	/ 1	1	- 1	/ 1		1
Adams	/ 1	- 2	2	/ 1	/ 5	5	
Adams	/ 1	0		/ 1	- 3		3
Adams	- 1	/ 2	2	- 1	- 9	9	
Adams	- 1	- 4	4	- 1	/ 10		10
Adams	- 3	- 1	3	- 3	/ 9		27
Adams	- 3	/ 8	24	- 3	- 8	24	
Adams	- 1	/ 6	6	- 1	- 4	4	
Adams	/ 5	/ 9	45	/ 5	/ 9	45	
Adams	/ 7	- 3	21	/ 7	- 3		21
Adams	/ 9	- 18	162	/ 9	- 6		54
Adams	- 9	- 20	180	- 9	/ 3		27
Adams	/ 1	/ 1	1	/ 1	- 7		7
		/ 263	- 271			/ 142	- 275
		/ 263				/ 142	
CORRELATION		- 8	- 8			- 133	- 133
		21x7.51x4.56	= -.01			21x7.48x4.56	= -.19

PRODUCTS MOMENTS

Terman 8 and Hoke 3				Terman 8 and Hoke 4					
Terman 8	Deviation	Hoke 3	Deviation	Product	Terman 8	Deviation	Hoke 4	Deviation	Product
				✓ -					✓ -
Adams	✓ 7	✓ 10	70		✓ 7	✓ 21	147		
Anderson	- 3	- 18	54		- 3	- 23	69		
Ballentine	✓ 3	✓ 12	36		✓ 3	- 17		51	
Bell	- 1	- 13	13		- 1	✓ 5		5	
Bentley	✓ 1	- 18		18	✓ 1	- 1		1	
Benson	✓ 1	✓ 27	27		✓ 1	✓ 3	3		
Bonnie	✓ 5	✓ 22	110		✓ 5	- 11		55	
Bowman	- 9	- 18	162		- 9	- 11	99		
Brown	- 1	- 8	8		- 1	- 23	23		
Carrano	✓ 1	✓ 10	10		✓ 1	- 17		17	
Greene	✓ 1	✓ 15	15		✓ 1	✓ 3	3		
Halcy	- 1	✓ 2		2	- 1	- 1	1		
Robert	- 1	✓ 2		2	- 1	- 9	9		
LaTepelle	- 3	- 13	39		- 3	✓ 9		27	
Lyden	- 3	- 8	24		- 3	- 1	3		
McDonald	- 1	✓ 2		2	- 1	- 1	1		
McGulley	✓ 5	- 3		15	✓ 5	✓ 17	85		
McIntosh	✓ 7	- 18		126	✓ 7	- 7		49	
Spencer	✓ 9	- 3		27	✓ 9	✓ 27	243		
Stabner	- 9	✓ 2		18	- 9	- 23	207		
Smith	✓ 1	✓ 22	22		✓ 1	- 1		1	
			✓ 590	- 210			✓ 893	- 206	
			- 210				- 206		
			✓ 380				✓ 687		
CORRELATION		✓ 380		= ✓ .29		✓ 687		= ✓ .51	
		21x13.90x4.56				21x14.02x4.56			

PRODUCTS MOMENTS

Terman 8 and Hoke 5				Terman 8 and Hoke 6			
Terman 8 Deviation	Hoke 5 Deviation	Product		Terman 8 Deviation	Hoke 6 Deviation	Product	
		/	-			/	-
Adams	/ 7	/16	112	/ 7	/16	112	
Albright	- 3	-19	57	- 3	-28	84	
Anderson	/ 3	/ 3	9	/ 3	/16	48	
Becker	- 1	- 8	8	- 1	/20		20
Bell	/ 1	-18		/ 1	/20	20	
Benson	/ 1	/11	11	/ 1	/ 8	8	
Brown	/ 5	/19	95	/ 5	/20	100	
Carroll	- 9	/ 2		- 9	/20		180
Clark	- 1	- 8	8	- 1	-38	38	
Clarkson	/ 1	/ 2	2	/ 1	0		
Crooks	/ 1	/ 4	4	/ 1	/ 6	6	
Daley	- 1	/24		- 1	-20	20	
			24				
Debert	- 1	- 4	4	- 1	-38	38	
DeGaulle	- 3	- 3	9	- 3	/16		48
Dixon	- 3	-18	54	- 3	-18	54	
Dunlap	- 1	- 2	2	- 1	/20		20
Eveling	/ 5	/15	75	/ 5	/20	100	
Flint	/ 7	- 6		/ 7	-20		140
			42				
Gordon	/ 9	/14	126	/ 9	-12		108
Hansen	- 9	-10	90	- 9	-22	198	
Healy	/ 1	-18		/ 1	/12	12	
			18				
		/666	-120		/ 838	-516	
		-120			- 516		
		/546			/ 322		
CORRELATION	/546			/322			
	21x12.71x4.56	= / .45		21x20.51x4.56	= / .16		

PRODUCTS MOMENTS

Terman 8 and Hoke 7				Terman 8 and Tressler			
Terman 8 Deviation	Hoke 7 Deviation	Product		Terman 8 Deviation	Tressler Deviation	Product	
		/	-			/	-
/ 7	/ 7	49		/ 7	/ 5	35	
- 3	/ 2		6	- 3	-31	93	
/ 3	/ 8	24		/ 3	/13	39	
- 1	/13		13	- 1	/13		13
/ 1	/ 1	1		/ 1	- 1		1
/ 1	/ 7	7		/ 1	/ 5	5	
/ 5	/ 4	20		/ 5	/17	85	
- 9	/11		99	- 9	/ 5		45
- 1	-10	10		- 1	- 9	9	
/ 1	/22	22		/ 1	-23		23
/ 1	/ 5	5		/ 1	/13	13	
- 1	- 8	8		- 1	/16		16
- 1	-61	61		- 1	- 3	3	
- 3	/17		51	- 3	- 6	18	
- 3	/ 2		6	- 3	-11	33	
- 1	- 4	4		- 1	-19	19	
/ 5	/ 9	45		/ 5	/21	105	
/ 7	- 3		21	/ 7	- 2		14
/ 9	-12		108	/ 9	/ 8	72	
- 9	/ 3		27	- 9	-10	90	
/ 1	/ 4	4		/ 1	-10		10
		/260	-331			/ 619	-122
		/260				- 122	
		- 71				/ 497	
CORRELATION		-71	= -.05			/497	= /.38
		21x16.09x4.56				21x13.67x4.56	

PRODUCTS MOMENTS

	Terman 9 and Terman 10		Product	Terman 9 and Hoke 1		Product
	Terman 9 Deviation	Terman 10 Deviation		Terman 9 Deviation	Hoke 1 Deviation	
	/ 1	- 2	2	/ 1	- 1	1
	- 2	-12	24	- 2	/12	24
	/ 1	/ 2	2	/ 1	0	
	- 3	/ 4	12	- 3	0	
	- 2	- 4	8	- 2	/ 3	6
	/ 2	- 6	12	/ 2	/ 9	18
	/ 2	0		/ 2	- 2	4
	0	/ 2		0	- 2	
	/ 1	- 4	4	/ 1	/ 1	1
	- 1	/ 2	2	- 1	- 2	2
	/ 1	0		/ 1	0	
	/ 2	0		/ 2	/ 2	4
	0	- 4		0	- 4	
	- 1	0		- 1	- 1	1
	- 2	/ 2	4	- 2	/ 8	16
	0	/ 6		0	/ 6	
	0	0		0	/ 9	
	0	0		0	- 3	
	/ 3	/ 4	12	/ 3	-18	54
	0	/ 4		0	-20	
	0	- 4		0	/ 1	
			/ 46 -36			/ 26 -105
			- 36			- 26
			/ 10			- 79
CORRELATION	21x1.51x4.07 = / .08			21x7.51x1.51 = -.33		

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PRODUCTS MOMENTS

	Terman 9 and Hoke 2				Terman 9 and Hoke 3			
	Terman 9 Deviation	Hoke 2 Deviation	Product		Terman 9 Deviation	Hoke 3 Deviation	Product	
			/	-			/	-
Adams	/ 1	/ 3	3		/ 1	/10	10	
Altonville	- 2	/13		26	- 2	-18	36	
Amherst	/ 1	- 8		8	/ 1	/12	12	
Ashton	- 3	/13		39	- 3	-13	39	
Barville	- 2	/ 7		14	- 2	-18	36	
Benson	/ 2	- 9		18	/ 2	/27	54	
Brattle	/ 2	- 8		16	/ 2	/22	44	
Cambridge	0	- 3			0	-18		
Cherry	/ 1	/ 1	1		/ 1	- 8		8
Croftville	- 1	/ 5		5	- 1	/10		10
Greene	/ 1	- 3		3	/ 1	/15	15	
Haley	/ 2	- 9		18	/ 2	/ 2	4	
Harbort	0	/10			0	/ 2		
Highwayville	- 1	/ 9		9	- 1	-13	13	
Hyden	- 2	- 8	16		- 2	- 8	16	
Madisonville	0	- 4			0	/ 2		
McGuffey	0	/ 9			0	- 3		
Moisture	0	- 3			0	-18		
Spencer	/ 3	- 6		18	/ 3	- 3		9
Sticker	0	/ 3			0	/ 2		
Wells	0	- 7			0	/22		
			/20	-174			/279	-27
			/ 20				- 27	
			-154				/252	
CORRELATION		-154				/252		
	21x7.48x1.51			=-.65	21x13.90x1.51			=/.57

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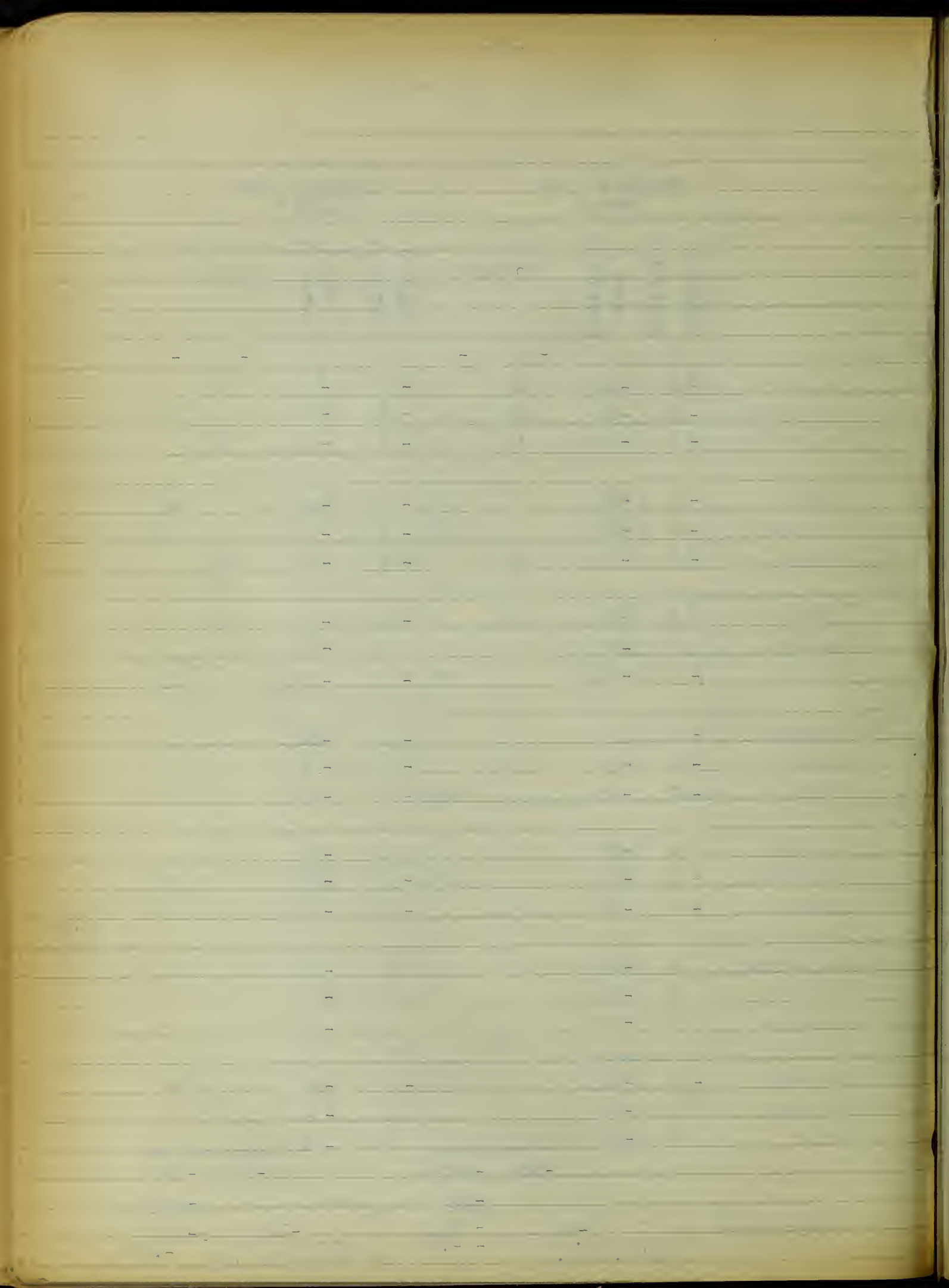
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P R O D U C T S M O M E N T S

	Terman 9 and Hoke 4			Terman 9 and Hoke 5		
	Terman 9 Deviation	Hoke 4 Deviation	Product	Terman 9 Deviation	Hoke 5 Deviation	Product
	/		-	/		-
Adams	/ 1	/21	21	/ 1	/16	16
Amoryville	- 2	-23	46	- 2	-19	38
Ashtabula	/ 1	-17	17	/ 1	/ 3	3
Bainbridge	- 3	/ 5	15	- 3	- 8	24
Bardonia	- 2	- 1	2	- 2	-18	36
Barnes	/ 2	/ 3	6	/ 2	/11	22
Barnstable	/ 2	/11	22	/ 2	/19	38
Barnum	0	-11		0	/ 2	
Barnum	/ 1	-23	23	/ 1	- 8	8
Barnum	- 1	-17	17	- 1	/ 2	2
Barnum	/ 1	/ 3	3	/ 1	/ 4	4
Barnum	/ 2	- 1	2	/ 2	/24	48
Barnum	0	- 9		0	- 4	
Barnumville	- 1	/ 9	9	- 1	- 3	3
Barnum	- 2	- 1	2	- 2	-18	36
Barnum	0	- 1		0	- 2	
Barnum	0	/17		0	/15	
Barnum	0	- 7		0	- 6	
Barnum	/ 3	/27	81	/ 3	/14	42
Barnum	0	-23		0	-10	
Barnum	0	- 1		0	-18	
			/ 200 -66			/ 310 - 10
			- 66			- 10
			/ 134			/ 300
CORRELATION		/134	= / .30		/300	= / .74
		21x14.02x1.51			21x12.71x1.51	

PRODUCTS MOMENTS

	Terman 9 and Hoke 6			Product	Terman 9 and Hoke 7			Product
	Terman 9 Deviation	Hoke 6 Deviation			Terman 9 Deviation	Hoke 7 Deviation		
	/ 1	/ 16		16	/ 1	/ 7		7
Amesbury	- 2	-28		56	- 2	/ 2		4
Amesbury	/ 1	/ 16		16	/ 1	/ 8		8
Bain	- 3	/ 20		60	- 3	/ 13		39
Bain	- 2	/ 20		40	- 2	/ 1		2
Bain	/ 2	/ 8		16	/ 2	/ 7		14
Bain	/ 2	/ 20		40	/ 2	/ 4		8
Bain	0	/ 20			0	-11		
Bain	/ 1	-38		38	/ 1	-10		10
Bain	- 1	0			- 1	/ 22		22
Bain	/ 1	/ 6		6	/ 1	/ 5		5
Bain	/ 2	-20		40	/ 2	- 8		16
Bain	0	-38			0	-61		
Bain	- 1	/ 16		16	- 1	/ 17		17
Bain	- 2	-18		36	- 2	/ 2		4
Bain	0	/ 20			0	- 4		
Bain	0	/ 20			0	/ 9		
Bain	0	-20			0	- 3		
Bain	/ 3	-12		36	/ 3	-12		36
Bain	0	-22			0	/ 3		
Bain	0	/ 12			0	/ 4		
				/ 186 -230				/ 42 -150
				/ 186				/ 42
CORRELATION				-44				-108
				-44				-108
				= -.07				= -.21
				21x20.51x1.51				21x16.09x1.51



PRODUCTS MOMENTS

Terman 9 and Tressler				Terman 10 and Hoke 1			
Terman 9 Deviation	Tressler Deviation	Product		Terman 10 Deviation	Hoke 1 Deviation	Product	
/		/	-	/		/	-
/ 1	/ 5	5		- 2	- 1	2	
- 2	-31	62		-12	/12		144
/ 1	/13	13		/ 2	0		
- 3	/13		39	/ 4	0		
- 2	- 1	2		- 4	/ 3		12
/ 2	/ 5	10		- 6	/ 9		54
/ 2	/17	34		0	- 2		
0	/ 5			/ 2	- 2		4
/ 1	- 9		9	- 4	/ 1		4
- 1	-23	23		/ 2	- 2		4
/ 1	/13	13		0	0		
/ 2	/16	32		0	/ 2		
0	- 3			- 4	- 4	16	
- 1	- 6	6		0	- 1		
- 2	-11	22		/ 2	/ 8	16	
0	-19			/ 6	/ 6	36	
0	/21			0	/ 9		
0	- 2			0	- 3		
/ 3	/ 8	24		/ 4	-18		72
0	-10			/ 4	-20		80
0	-10			- 4	/ 1		4
		/246	-48			/ 70	-378
		- 48				/ 70	
		/198				-308	
CORRELATION		/198				-308	
21x13.67x1.51		= / .42		21x7.51x4.07		= - .48	

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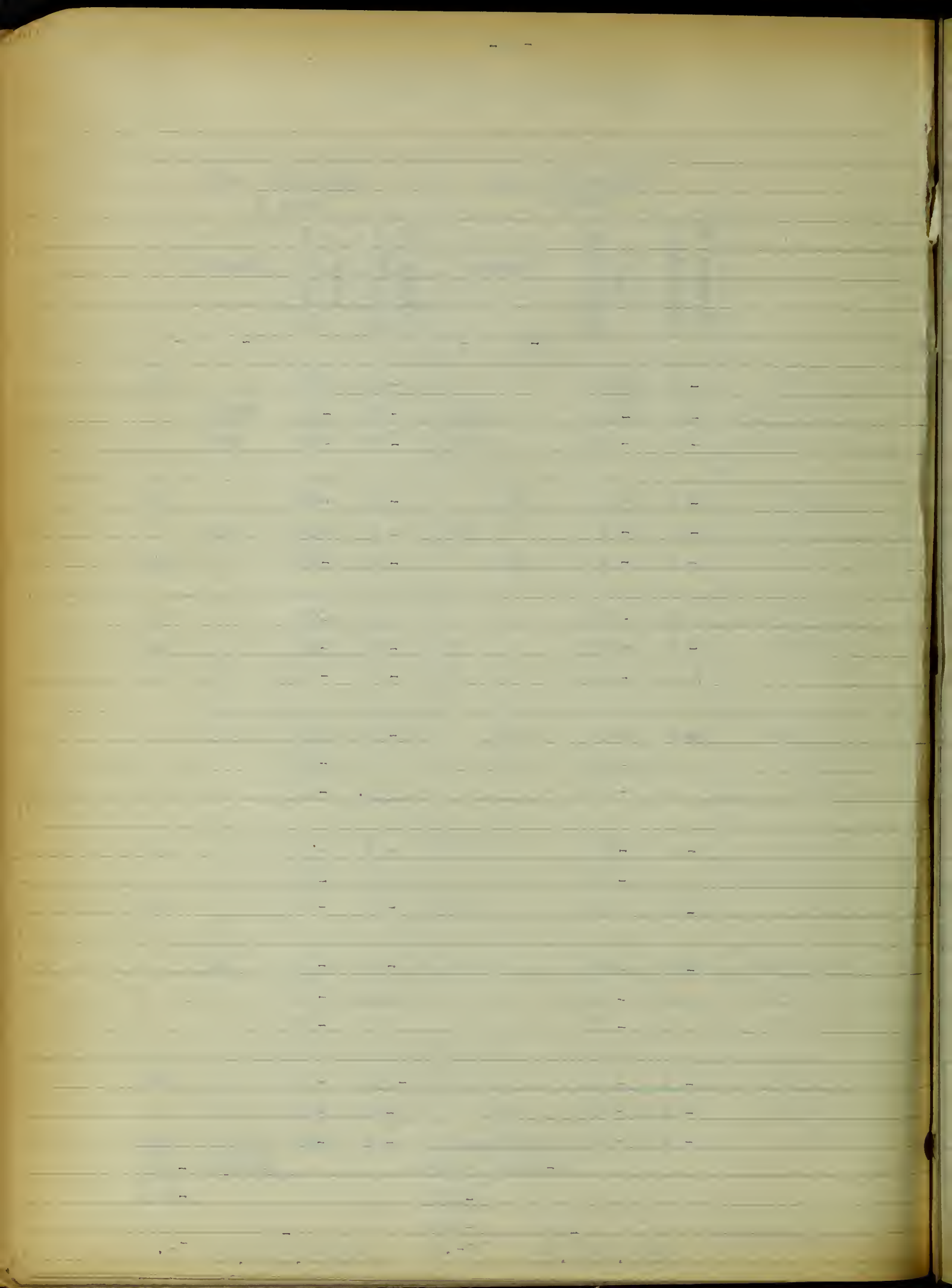
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PRODUCTS MOMENTS

	Terman 10 and Hoke 2			Terman 10 and Hoke 3		
	Terman 10 Deviation	Hoke 2 Deviation	Product	Terman 10 Deviation	Hoke 3 Deviation	Product
			/ -			/ -
Opposition	- 2	/ 3	6	- 2	/ 10	20
Deliberation	-12	/ 13	156	-12	-18	216
	/ 2	- 8	16	/ 2	/ 12	24
Prudence	/ 4	/ 13	52	/ 4	-13	52
Perillous	- 4	/ 7	28	- 4	-18	72
Corrode	- 6	- 9	54	- 6	/ 27	162
Unstable	0	- 8		0	/ 22	
Insulation	/ 2	- 3	6	/ 2	-18	36
Altruism	- 4	/ 1	4	- 4	- 8	32
Indifference	/ 2	/ 5	10	/ 2	/ 10	20
Frugality	0	- 3		0	/ 15	
Unlucky	0	- 9		0	/ 2	
Desert	- 4	/ 10	40	- 4	/ 2	8
Laconic	0	/ 9		0	-13	
Lyden	/ 2	- 8	16	/ 2	- 8	16
Perilous	/ 6	- 4	24	/ 6	/ 2	12
Unlucky	0	/ 9		0	- 3	
Unlucky	0	- 3		0	-18	
Spontaneous	/ 4	- 6	24	/ 4	- 3	12
Stagnant	/ 4	/ 3	12	/ 4	/ 2	8
Unlucky	- 4	- 7	28	- 4	/ 22	88
			/ 156 -320			/ 384 -394
			/ 156			/ 384
CORRELATION		-164	-164		-10	- 10
	21x7.48x4.07		-.26	21x13.90x4.07		-.01

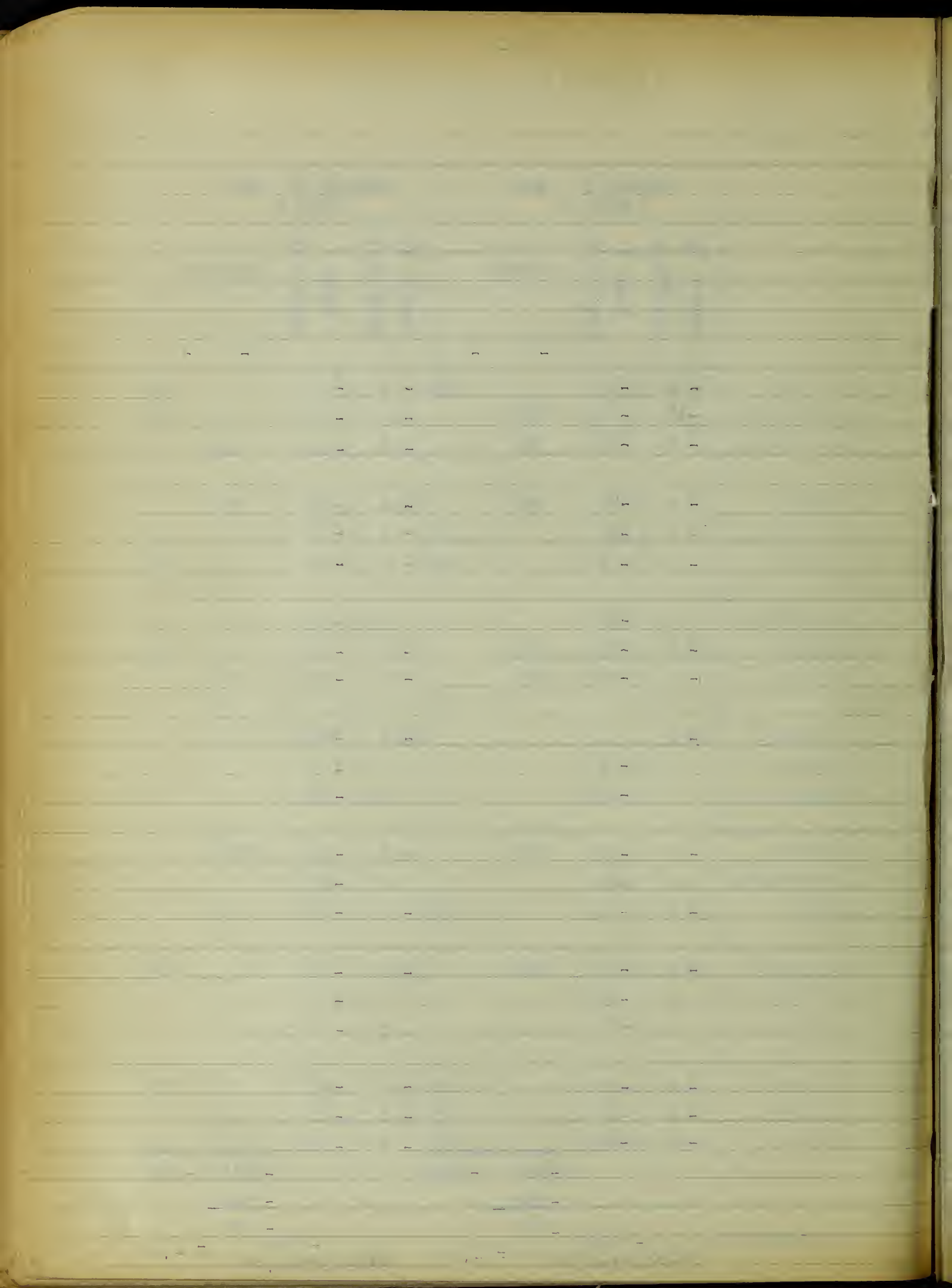


PRODUCTS MOMENTS

	Terman 10 and Hoke 4			Terman 10 and Hoke 5		
	Terman 10 Deviation	Hoke 4 Deviation	Product	Terman 10 Deviation	Hoke 5 Deviation	Product
			/ -			/ -
32	- 2	/21	42	- 2	/16	32
Amundson	-12	-23	276	-12	-19	228
Amundson	/ 2	/17	34	/ 2	/ 3	6
Amundson	/ 4	/ 5	20	/ 4	- 8	32
Amundson	- 4	- 1	4	- 4	-18	72
Amundson	- 6	/ 3	18	- 6	/11	66
Amundson	0	/11		0	/19	
Amundson	/ 2	-11	22	/ 2	/ 2	4
Amundson	- 4	-23	92	- 4	- 8	32
Amundson	/ 2	-17	34	/ 2	/ 2	4
Amundson	0	/ 3		0	/ 4	
Amundson	0	- 1		0	/24	
Amundson	- 4	- 9	36	- 4	- 4	16
Amundson	0	/ 9		0	- 3	
Amundson	/ 2	- 1	2	/ 2	-18	36
Amundson	/ 6	- 1	6	/ 6	- 2	12
Amundson	0	/17		0	/15	
Amundson	0	- 7		0	- 6	
Amundson	/ 4	/27	108	/ 4	/14	56
Amundson	/ 4	-23	92	/ 4	-10	40
Amundson	- 4	- 1	4	- 4	-18	72
			/ 574 -216			/ 490 -218
			- 216			- 218
CORRELATION		/358 / 358	= / .30		/272 / 272	= / .25
	21x14.02x4.07			21x12.71x4.07		

PRODUCTS MOMENTS

	Terman 10 and Hoke 6				Terman 10 and Hoke 7			
	Terman 10 Deviation	Hoke 6 Deviation	Product		Terman 10 Deviation	Hoke 7 Deviation	Product	
			/	-			/	-
Wright	/ 2	/16		32	- 2	/ 7		14
Wright	-12	-28	336		-12	/ 2		24
Wright	/ 2	/16	32		/ 2	/ 8	16	
Wright	/ 4	/20	80		/ 4	/13	52	
Wright	- 4	/20		80	- 4	/ 1		4
Wright	- 6	/ 8		48	- 6	/ 7		42
Wright	0	/20			0	/ 4		
Wright	/ 2	/20	40		/ 2	-11		22
Wright	- 4	-38	152		- 4	-10	40	
Wright	/ 2	0			/ 2	/22	44	
Wright	0	/ 6			0	/ 5		
Wright	0	-20			0	- 8		
Wright	- 4	-38	152		- 4	-61	244	
Wright	0	/16			0	/17		
Wright	/ 2	-18		36	/ 2	/ 2	4	
Wright	/ 6	/20	120		/ 6	- 4		24
Wright	0	/20			0	/ 9		
Wright	0	-20			0	- 3		
Wright	/ 4	-12		48	/ 4	-12		48
Wright	/ 4	-22		88	/ 4	/ 3	12	
Wright	- 4	/12		48	- 4	/ 4		16
			/912	-380			/ 412	-194
			-380				- 194	
			/532				/ 218	
CORRELATION	/ 532				/ 218			
	21x20.51x4.07 = / .30				21x16.09x4.07 = / .15			



PRODUCTS MOMENTS

Terman 10 and Tressler				Hoke 1 and Hoke 2			
Terman 10 Deviation	Tressler Deviation	Product		Hoke 1 Deviation	Hoke 2 Deviation	Product	
/		-		/		/	-
- 2	/ 5	10		- 1	/ 3	3	
-12	-31	372		/12	/13	156	
/ 2	/13	26		0	- 8		
/ 4	/13	52		0	/13		
- 4	- 1	4		/ 3	/ 7	21	
- 6	/ 5	30		/ 9	- 9	81	
0	/17			- 2	- 8	16	
/ 2	/ 5	10		- 2	- 3	6	
- 4	- 9	36		/ 1	/ 1	1	
/ 2	-23	46		- 2	/ 5	10	
0	/13			0	- 3		
0	/16			/ 2	- 9	18	
- 4	- 3	12		- 4	/10	40	
0	- 6			- 1	/ 9	9	
/ 2	-11	22		/ 8	- 8	64	
/ 6	-19	114		/ 6	- 4	24	
0	/21			/ 9	/ 9	81	
0	- 2			- 3	- 3	9	
/ 4	/ 8	32		-18	- 6	108	
/ 4	-10	40		-20	/ 3	60	
- 4	-10	40		/ 1	- 7	7	
		/584	-262			/398	-316
		-262				-316	
		/322				/ 82	

CORRELATION

$$\frac{\frac{1}{322}}{21 \times 18 \times 4.07} = \frac{1}{.21}$$

$$\frac{\frac{1}{82}}{21 \times 7.51 \times 7.48} = \frac{1}{.06}$$

PRODUCTS MOMENTS

Hoke 1 and Hoke 3				Hoke 1 and Hoke 4			
Hoke 1 Deviation	Hoke 3 Deviation	Product		Hoke 1 Deviation	Hoke 4 Deviation	Product	
/		/	-	/		/	-
- 1	/10		10	- 1	/21		21
/12	-18		216	/12	-23		276
0	/12			0	/17		
0	-13			0	/ 5		
/ 3	-18	54		/ 3	- 1		3
/ 9	/27	243		/ 9	/ 3	27	
- 2	/22		44	- 2	/11		22
- 2	-18	36		- 2	-11	22	
/ 1	- 8		8	/ 1	-23		23
- 2	/10		20	- 2	-17	34	
0	/15			0	/ 3		
/ 2	/ 2	4		/ 2	- 1		2
- 4	/ 2		8	- 4	- 9	36	
- 1	-13	13		- 1	/ 9		9
/ 8	- 8		64	/ 8	- 1		8
/ 6	/ 2	12		/ 6	- 1		6
/ 9	- 3		27	/ 9	/17	153	
- 3	-18	54		- 3	- 7	21	
-18	- 3	54		-18	/27		486
-20	/ 2		40	-20	-23	460	
/ 1	/22	22		/ 1	- 1		1
		/438	-491			/753	-857
		<u>/438</u>				<u>/753</u>	
		- 53				-104	
CORRELATION		-53				-104	
21x13.90x7.51		= -.02		21x7.51x14.02		= -.05	

PRODUCTS MOMENTS

	Hoke 1 and Hoke 5				Hoke 1 and Hoke 6			
	Hoke 1 Deviation	Hoke 5 Deviation	Product		Hoke 1 Deviation	Hoke 6 Deviation	Product	
			/	-			/	-
Amos	- 1	/16		16	- 1	/16		16
Amosette	/12	-19	228		/12	-28	336	
Amosette	0	/ 3			0	/16		
Amosette	0	- 8			0	/20		
Amosette	/ 3	-18	54		/ 3	/20	60	
Amosette	/ 9	/11	99		/ 9	/ 8	72	
Amosette	- 2	/19	38		- 2	/20	40	
Amosette	- 2	/ 2	4		- 2	/20	40	
Amosette	- 1	- 8	8		/ 1	-38	38	
Amosette	- 2	/ 2	4		- 2	0		
Amosette	0	/ 4			0	/ 6		
Amosette	/ 2	/24	48		/ 2	-20	40	
Amosette	- 4	- 4	16		- 4	-38	152	
Amosette	- 1	- 3	3		- 1	/16	16	
Amosette	/ 8	-18	144		/ 8	-18	144	
Amosette	/ 6	- 2	12		/ 6	/20	120	
Amosette	/ 9	/15	135		/ 9	/20	180	
Amosette	- 3	- 6	18		- 3	-20	60	
Amosette	-18	/14	252		-18	-12	216	
Amosette	-20	-10	200		-20	-22	440	
Amosette	/ 1	-18	18		/ 1	/12	12	
			/ 519	-778			/1312	-670
			/519				- 670	
			-259	-259			/642	/ 642
CORRELATION			21x7.51x12.71	= .13			21x7.51x20.51	= .38

PRODUCTS MOMENTS

Hoke 1 and Hoke 7				Hoke 1 and Tressler			
Hoke 1 Deviation	Hoke 7 Deviation	Product		Hoke 1 Deviation	Tressler Deviation	Product	
		/	-			/	-
- 1	/ 7		7	- 1	/ 5		5
/12	/ 2	24		/12	-31	372	
0	/ 8			0	/13		
0	/13			0	/13		
/ 3	/ 1	3		/ 3	- 1	3	
/ 9	/ 7	63		/ 9	/ 5	45	
- 2	/ 4		8	- 2	/17		34
- 2	-11	22		- 2	/ 5		10
/ 1	-10		10	/ 1	- 9		9
- 2	/22		44	- 2	-23	46	
0	/ 5			0	/13		
/ 2	- 8		16	/ 2	/16	32	
- 4	-61	244		- 4	- 3	12	
- 1	/17		17	- 1	- 6	6	
/ 8	/ 2	16		/ 8	-11		88
/ 6	- 4		24	/ 6	-19		114
/ 9	/ 9	81		/ 9	/21	189	
- 3	- 3	9		- 3	- 2	6	
-18	-12	216		-18	/ 8		144
-20	/ 3		60	-20	-10	200	
/ 1	/ 4	4		/ 1	-10		10
		/ 682	-186			/536	-789
		- 186				/536	
		/ 496				-253	
CORRELATION		/496				-253	
		21x7.51x16.09	=/.20			21x13.67x7.51	=-.12

PRODUCTS MOMENTS

	Hoke 2 and Hoke 3				Hoke 2 and Hoke 4			
	Hoke 2 Deviation	Hoke 3 Deviation	Product		Hoke 2 Deviation	Hoke 4 Deviation	Product	
			/	-			/	-
Adams	/ 3	/10	30		/ 3	/21	63	
Amesbury	/13	-18		234	/13	-23		299
Andover	- 8	/12		96	- 8	/17		136
Bell	/13	-13		169	/13	/ 5	65	
Barre	/ 7	-18		126	/ 7	- 1		7
Canaan	- 9	/27		243	- 9	/ 3		27
Concord	- 8	/22		176	- 8	/11		88
Danvers	- 3	-18	54		- 3	-11	33	
Gibson	/ 1	- 8		8	/ 1	-23		23
Hudson	/ 5	/10	50		/ 5	-17		85
Greene	- 3	/15		45	- 3	/ 3		9
Salisbury	- 9	/ 2		18	- 9	- 1	9	
Robert	/10	/ 2	20		/10	- 9		90
Windsor	/ 9	-13		117	/ 9	/ 9	81	
Lyden	- 8	- 8	64		- 8	- 1	8	
Windsor	- 4	/ 2		8	- 4	- 1	4	
Windsor	/ 9	- 3		27	/ 9	/17	153	
Windsor	- 3	-18	54		- 3	- 7	21	
Windsor	- 6	- 3	18		- 6	/27		162
Windsor	/ 3	/ 2	6		/ 3	-23		69
Windsor	- 7	/22		154	- 7	- 1	7	
			/296	-1421			/ 444	-995
			/ 296				/444	
			-1125				-551	
CORRELATION			21x13.90x7.48	= -.52			21x7.48x14.02	= -.25

PRODUCTS MOMENTS

	Hoke 2 and Hoke 5		Product		Hoke 2 and Hoke 6		Product	
	Hoke 2 Deviation	Hoke 5 Deviation			Hoke 2 Deviation	Hoke 6 Deviation		
	/ 3	/16	48		/ 3	/16	48	
	/13	-19	247		/13	-28	364	
	- 8	/ 3	24		- 8	/16	128	
	/13	- 8	104		/13	/20	260	
	/ 7	-18	126		/ 7	/20	140	
	- 9	/11	99		- 9	/ 8	72	
	- 8	/19	152		- 8	/20	160	
	- 3	/ 2	6		- 3	/20	60	
	/ 1	- 8	8		/ 1	-38	38	
	/ 5	/ 2	10		/ 5	0		
	- 3	/ 4	12		- 3	/ 6	18	
	- 9	/24	216		- 9	-20	180	
	/10	- 4	40		/10	-38	380	
	/ 9	- 3	27		/ 9	/16	144	
	- 8	-18	144		- 8	-18	144	
	- 4	- 2	8		- 4	/20	80	
	/ 9	/15	135		/ 9	/20	180	
	- 3	- 6	18		- 3	-20	60	
	- 6	/14	84		- 6	-12	72	
	/ 3	-10	30		/ 3	-22	66	
	- 7	-18	126		- 7	/12	84	
			<u>/489 -1175</u>				<u>/1228 -1450</u>	
			<u>/ 489</u>				<u>/1228</u>	
			<u>- 686</u>					

CORRELATION

$$\frac{-586}{21 \times 7.48 \times 12.71} = -.34$$

$$\frac{-222}{21 \times 7.48 \times 20.51} = -.07$$

PRODUCTS MOMENTS

	Hoke 2 and Hoke 7		Product		Hoke 2 and Tressler		Product	
	Hoke 2 Deviation	Hoke 7 Deviation			Hoke 2 Deviation	Tressler Deviation		
			/	-			/	-
Adams	/ 3	/ 7	21		/ 3	/ 5	15	
Albright	/13	/ 2	26		/13	-31	403	
Anderson	- 8	/ 8		64	- 8	/13	104	
Baker	/13	/13	169		/13	/13	169	
Barrett	/ 7	/ 1	7		/ 7	- 1	7	
Benson	- 9	/ 7		63	- 9	/ 5	45	
Brown	- 8	/ 4		32	- 8	/17	136	
DeMarco	- 3	-11	33		- 3	/ 5	15	
Gibson	/ 1	-10		10	/ 1	- 9	9	
Gordon	/ 5	/22	110		/ 5	-23	115	
Greene	- 3	/ 5		15	- 3	/13	39	
Haley	- 9	- 8	72		- 9	/16	144	
Robert	/10	-61		610	/10	- 3	30	
Sanapelle	/ 9	/17	153		/ 9	- 6	54	
Lyden	- 8	/ 2		16	- 8	-11	88	
Ward	- 4	- 4	16		- 4	-19	76	
W. R. L.	/ 9	/ 9	81		/ 9	/21	189	
Polanco	- 3	- 3	9		- 3	- 2	6	
Spencer	- 6	-12	72		- 6	/ 8	48	
Stoner	/ 3	/ 3	9		/ 3	-10	30	
Wells	- 7	/ 4		28	- 7	-10	70	
			/ 778	-838			/613	-1179
			/778				/ 613	
				- 60				- 566
CORRELATION			-60	=			-566	=
			21x7.48x16.04	=			21x13.67x7.48	=
				-.02				-.26

PRODUCTS MOMENTS

	Hoke 3 and Hoke 4				Hoke 3 and Hoke 5			
	Hoke 3 Deviation	Hoke 4 Deviation	Product		Hoke 3 Deviation	Hoke 5 Deviation	Product	
			/	-			/	-
Adel	/10	/21	210		/10	/16	160	
Allen	-18	-23	414		-18	-19	342	
Bell	/12	/17	204		/12	/3	36	
Bell	-13	/5		65	-13	-8	104	
Bell	-18	-1	18		-18	-18	324	
Bell	/27	/3	81		/27	/11	297	
Bell	/22	/11	242		/22	/19	418	
Bell	-18	-11	198		-18	/2		36
Bell	-8	-23	184		-8	-8	64	
Bell	/10	-17		170	/10	/2	20	
Bell	/15	/3	45		/15	/4	60	
Bell	/2	-1		2	/2	/24	48	
Bell	/2	-9		18	/2	-4		8
Bell	-13	/9		117	-13	-3	39	
Bell	-8	-1	8		-8	-18	144	
Bell	/2	-1		2	/2	-2		4
Bell	-3	/17		51	-3	/15		45
Bell	-18	-7	126		-18	-6	108	
Bell	-3	/27		81	-3	/14		42
Bell	/2	-23		46	/2	-10		20
Bell	/22	-1		22	/22	-18		396
			/1730	-574			/2164	-551
			-574				-551	
			/1156				/1613	
CORRELATION		/1156				/1613		
		21x13.90x14.02	=	/28		21x13.90x12.71	=	/43

PRODUCTS MOMENTS

	Hoke 3 and Hoke 6				Hoke 3 and Hoke 7			
	Hoke 3 Deviation	Hoke 6 Deviation	Product		Hoke 3 Deviation	Hoke 7 Deviation	Product	
			/	-			/	-
Adel	/10	/16	160		/10	/7	70	
Adel	-18	-28	504		-18	/2		36
Adel	/12	/16	192		/12	/8	96	
Bell	-13	/20		260	-13	/13		169
Bell	-18	/20		360	-18	/1		18
Bell	/27	/8	216		/27	/7	189	
CumLife	/22	/20	440		/22	/4	88	
FalMarro	-18	/20		360	-18	-11	198	
Olsson	-8	-38	304		-8	-10	80	
Mordano	/10	0			/10	/22	220	
Opene	/15	/6	90		/15	/5	75	
Salay	/2	-20		40	/2	-8		16
Salay	/2	-38		76	/2	-61		122
Salay	-13	/16		208	-13	/17		221
Salay	-8	-18	144		-8	/2		16
Salay	/2	/20	40		/2	-4		8
Salay	-3	/20		60	-3	/9		27
Salay	-18	-20	360		-18	-3	54	
Salay	-3	-12	36		-3	-12	36	
Salay	/2	-22		44	/2	/3	6	
Salay	/22	/12	264		/22	/4	88	
			/2750	-1408			/1200	-633
			-1408				-633	
			/1342				/567	/567
CORRELATION	21x13.90x20.51 = /22				21x13.90x16.09 = /12			

PRODUCTS MOMENTS

	Hoke 3 and Tressler			Hoke 4 and Hoke 5		
	Hoke 3 Deviation	Tressler Deviation	Product	Hoke 4 Deviation	Hoke 5 Deviation	Product
	/	/	/	/	/	/
			-			-
Mo	/10	/ 5	50	/21	/16	336
11/11/11	-18	-31	558	-23	-19	437
11/11/11	/12	/13	156	/17	/ 3	51
11/11/11	-13	/13	169	/ 5	- 8	40
11/11/11	-18	- 1	18	- 1	-18	18
11/11/11	/27	/ 5	135	/ 3	/11	33
11/11/11	/22	/17	374	/11	/19	209
11/11/11	-18	/ 5	90	-11	/ 2	22
11/11/11	- 8	- 9	72	-23	- 8	184
11/11/11	/10	-23	230	-17	/ 2	34
11/11/11	/15	/13	195	/ 3	/ 4	12
11/11/11	/ 2	/16	32	- 1	/24	24
11/11/11	/ 2	- 3	6	- 9	- 4	36
11/11/11	-13	- 6	78	/ 9	- 3	27
11/11/11	- 8	-11	88	- 1	-18	18
11/11/11	/ 2	-19	38	- 1	- 2	2
11/11/11	- 3	/21	63	/17	/15	255
11/11/11	-18	- 2	36	- 7	- 6	42
11/11/11	- 3	/ 8	24	/27	/14	378
11/11/11	/ 2	-10	20	-23	-10	230
11/11/11	/22	-10	220	- 1	-18	18
			/1792 -860			/2257 -147
			- 860			- 147
			/ 932			/2110
CORRELATION	/932		21x13.90x13.68	/2110		21x14.02x12.71
			=/.23			=/.56

PRODUCTS MOMENTS

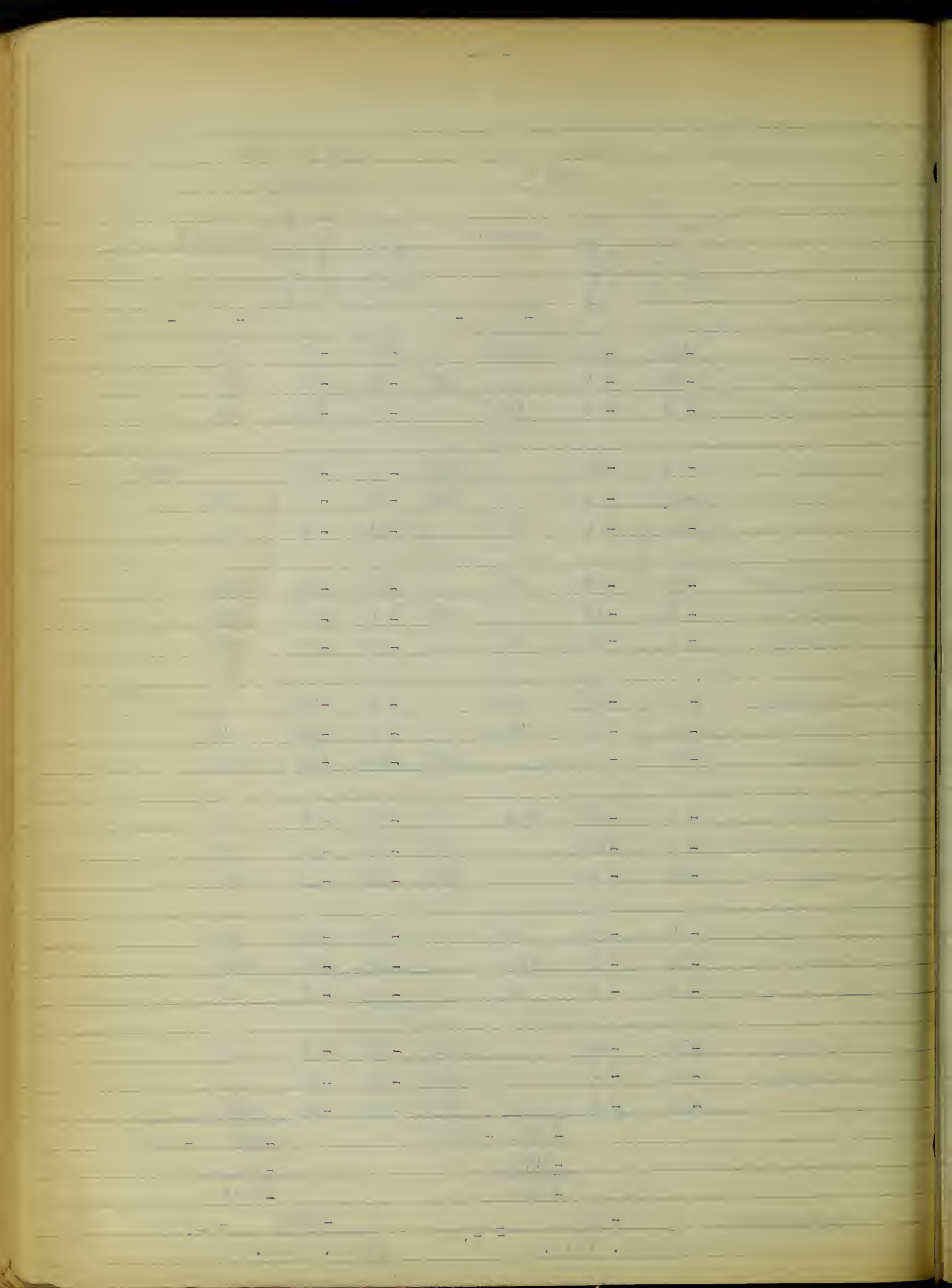
	Hoke 4 and Hoke 6			Hoke 4 and Hoke 7		
	Hoke 4 Deviation	Hoke 6 Deviation	Product	Hoke 4 Deviation	Hoke 7 Deviation	Product
	\neq	\neq	\neq -	\neq	\neq	\neq -
Amos	$\neq 21$	$\neq 16$	336	$\neq 21$	$\neq 7$	147
Amos	-23	-28	644	-23	$\neq 2$	46
Amos	$\neq 17$	$\neq 16$	272	$\neq 17$	$\neq 8$	136
Amos	$\neq 5$	$\neq 20$	100	$\neq 5$	$\neq 13$	65
Amos	-1	$\neq 20$	20	-1	$\neq 1$	1
Amos	$\neq 3$	$\neq 8$	24	$\neq 3$	$\neq 7$	21
Amos	$\neq 11$	$\neq 20$	220	$\neq 11$	$\neq 4$	44
Amos	-11	$\neq 20$	220	-11	-11	121
Amos	-23	-38	874	-23	-10	230
Amos	-17	0		-17	$\neq 22$	374
Amos	$\neq 3$	$\neq 6$	18	$\neq 3$	$\neq 5$	15
Amos	-1	-20	20	-1	-8	8
Amos	-9	-38	342	-9	-61	549
Amos	$\neq 9$	$\neq 16$	144	$\neq 9$	$\neq 17$	153
Amos	-1	-18	18	-1	$\neq 2$	2
Amos	-1	$\neq 20$	20	-1	-4	4
Amos	$\neq 17$	$\neq 20$	340	$\neq 17$	$\neq 9$	153
Amos	-7	-20	140	-7	-3	21
Amos	$\neq 27$	-12	324	$\neq 27$	-12	324
Amos	-23	-22	506	-23	$\neq 3$	69
Amos	-1	$\neq 12$	12	-1	$\neq 4$	4
			$\neq 3998$ -596			$\neq 1667$ -820
			-596			-820
CORRELATION	$\neq 3402$ $\neq 3402$ = $\neq .55$			$\neq 847$ $\neq 847$ = $\neq .18$		
	21x14.02x20.51			21x14.02x16.09		

PRODUCTS MOMENTS

Hoke 4 and Tressler			Hoke 5 and Hoke 6		
Hoke 4 Deviation	Tressler Deviation	Product	Hoke 5 Deviation	Hoke 6 Deviation	Product
		/ -			/ -
/21	/5	105	/16	/16	256
-23	-31	713	-19	-28	532
/17	/13	221	/3	/16	48
/5	/13	65	-8	/20	160
-1	-1	1	-18	/20	360
/3	/5	15	/11	/8	88
/11	/17	187	/19	/20	360
-11	/5	55	/2	/20	40
-23	-9	207	-8	-38	304
-17	-23	391	/2	0	
/3	/13	39	/4	/6	24
-1	/16	16	/24	-20	480
-9	-3	27	-4	-38	152
/9	-6	54	-3	/16	48
-1	-11	11	-18	-18	324
-1	-19	19	-2	/20	40
/17	/21	357	/15	/20	300
-7	-2	14	-6	-20	120
/27	/8	216	/14	-12	168
-23	-10	230	-10	-22	220
-1	-10	10	-18	/12	216
		/2828 - 125			/2788 - 1072
		- 125			- 1072
		/2703			/1716
		/2703			/1716
CORRELATION		21x13.67x14.02 = /.67			21x12.71x20.51 = /.31

PRODUCTS MOMENTS

	Hoke 5 and Hoke 7			Hoke 5 and Tressler		
	Hoke 5 Deviation	Hoke 7 Deviation	Product	Hoke 5 Deviation	Tressler Deviation	Product
			/ -			/ -
Mac...	/16	/7	112	/16	/5	80
...	-19	/2	38	-19	-31	589
...	/3	/8	24	/3	/13	39
...	-8	/13	104	-8	/13	104
...	-18	/1	18	-18	-1	18
...	/11	/7	77	/11	/5	55
...	/19	/4	76	/19	/17	323
...	/2	-11	22	/2	/5	10
...	-8	-10	80	-8	-9	72
...	/2	/22	44	/2	-23	46
...	/4	/5	20	/4	/13	52
...	/24	-8	192	/24	/16	384
...	-4	-61	244	-4	-3	12
...	-3	/17	36	-3	-6	18
...	-18	/2	36	-18	-11	198
...	-2	-4	8	-2	-19	38
...	/15	/9	135	/15	/21	315
...	-6	-3	18	-6	-2	12
...	/14	-12	168	/14	/8	112
...	-10	/3	30	-10	-10	100
...	-18	/4	72	-18	-10	180
			/ 838 - 731			/2607 -150
			- 731			- 150
			/ 107			/2457
CORRELATION	/107			/2457		
	21x12.71x16.09 = / .02			21x13.67x12.71 = / .67		



PRODUCTS MOMENTS

Hoke 6 and Hoke 7				Hoke 6 and Tressler			
Hoke 6 Deviation	Hoke 7 Deviation	Product		Hoke 6 Deviation	Tressler Deviation	Product	
/		/	-	/		/	-
/16	/7	112		/16	/5	80	
-28	/2		56	-28	-31	868	
/16	/8	128		/16	/13	208	
/20	/13	260		/20	/13	260	
/20	/1	20		/20	-1		20
/8	/7	56		/8	/5	40	
/20	/4	80		/20	/17	340	
/20	-11		220	/20	/5	100	
-38	-10	380		-38	-9	342	
0	/22			0	-23		
/6	/5	30		/6	/13	78	
-20	-8	160		-20	/16		320
-38	-61	2318		-38	-3	114	
/16	/17	272		/16	-6		96
-18	/2		36	-18	-11	198	
/20	-4		80	/20	-19		380
/20	/9	180		/20	/21	420	
-20	-3	60		-20	-2	40	
-12	-12	144		-12	/8		96
-22	/3		66	-22	-10	220	
/12	/4	48		/12	-10		120
		/4248	-458			/3308	-1032
		-458				-1032	
		/3790				/2276	

CORRELATION

$$\frac{/3790}{21 \times 20.51 \times 16.09} = /.55$$

$$\frac{/2276}{21 \times 13.67 \times 20.51} = /.31$$

PRODUCTS MOMENTS

Hoke 7 and
Tressler

	Hoke 7 Deviation	Tressler Deviation	Product	
	/ 7	/ 5	35	
	/ 2	-31		62
	/ 8	/13	104	
	/13	/13	169	
	/ 1	- 1		1
	/ 7	/ 5	35	
	/ 4	/17	68	
	-11	/ 5		55
	-10	- 9	90	
	/22	-23		506
	/ 5	/13	65	
	- 8	/16		128
	-61	- 3	183	
	/17	- 6		102
	/ 2	-11		22
	- 4	-19	76	
	/ 9	/21	189	
	- 3	- 2	6	
	-12	/ 8		96
	/ 3	-10		30
	/ 4	-10		40
			/1020	-542
			- 542	
			/ 478	

CORRELATION

$$\frac{478}{21 \times 13.67 \times 16.09} = .10$$

	Correlation	Frequency	Deviation		Square		Product	
			X	Y	X ²	Y ²	XY	
Asbrook	69	179	✓ 7	✓ 38	49	1444	266	
Ammoniate	46	67	-16	-74	256	5476	1184	
Walworth	77	169	✓ 15	✓ 28	225	784	420	
Bellin	74	145	✓ 12	✓ 4	144	16	48	
Gardille	55	113	- 7	-28	49	784	196	
Corson	78	156	✓ 16	✓ 15	256	225	240	
Gunnite	61	176	- 1	✓ 35	1	1225		35
DeWares	63	141	✓ 1	0	1	0		
Admon	48	132	-14	- 9	196	81	126	
Widowado	50	113	-12	-28	144	784	336	
Upson	53	169	- 9	✓ 28	81	784		252
Palley	67	114	✓ 5	-27	25	729		135
Dobara	57	156	- 5	✓ 15	25	225		75
LaChensille	63	144	✓ 1	✓ 3	1	9	3	
Admon	60	140	- 2	- 1	4	1	2	
Admon	69	136	✓ 7	- 5	49	25		35
Wolmley	61	155	- 1	✓ 14	1	196		14
Wolmley	66	123	✓ 4	-18	16	324		72
Wolmley	74	172	✓ 12	✓ 31	144	961	372	
Stebner	41	114	-21	-17	441	289	357	
Uhlin	64	153	✓ 2	✓ 12	4	144	24	
	1296	2967			2112	14506	✓ 3574	- 618
	62	141			100.52	690.76	- 618	
CORRELATION		✓ 2926			10.02	26.28	✓ 2956	
					21x10.02x26.28=		✓ .53	

	Criterion	Battery	Deviation		ΣX^2	ΣY^2	Product	
			X	Y			X	Y
Adcock	69	523	7	72	49	5184	504	
Annunziata	46	390	-16	-61	256	3721	976	
Ballantine	77	499	15	48	225	2304	720	
Belkin	74	481	12	30	144	900	360	
Caidille	55	445	-7	-6	49	36	42	
Cordon	78	507	16	56	256	3136	896	
Cunniffe	61	517	-1	66	1	4356		66
DeVartco	63	428	1	-23	1	529		23
Gibson	48	366	-14	-85	196	7225	1190	
Giordano	50	471	-12	20	144	1764		240
Greene	53	481	-9	30	81	900		270
Haley	67	441	5	-10	25	100		50
Robert	57	347	-5	-104	25	10816	520	
Lachapelle	63	485	1	34	1	1156	34	
Lydac	60	408	-2	-43	4	1849	86	
MacDougal	69	468	7	17	49	289	119	
McDouley	61	527	-1	76	1	5776		76
McIntosh	66	391	4	-60	16	3600		240
McIntosh	74	441	12	-10	144	100		120
Stebner	41	384	-21	-67	441	4489	1407	
Uhlir	64	464	2	13	4	169	26	
1296		9464	2112		58399	6880	-1085	
62		451	100.52		2781	1085		
CORRELATION			5795		10.02	52.74	5795	
			21x10.02x52.74		.52			

Date	Place	No.	Temperature				Remarks
			Max	Min	Mean	Range	
Jan 1	San Francisco	100	72	48	60	24	Clear
Jan 2	San Francisco	101	75	50	62	25	Clear
Jan 3	San Francisco	102	78	52	65	26	Clear
Jan 4	San Francisco	103	80	54	67	26	Clear
Jan 5	San Francisco	104	82	56	69	26	Clear
Jan 6	San Francisco	105	84	58	71	26	Clear
Jan 7	San Francisco	106	86	60	73	26	Clear
Jan 8	San Francisco	107	88	62	75	26	Clear
Jan 9	San Francisco	108	90	64	77	26	Clear
Jan 10	San Francisco	109	92	66	79	26	Clear
Jan 11	San Francisco	110	94	68	81	26	Clear
Jan 12	San Francisco	111	96	70	83	26	Clear
Jan 13	San Francisco	112	98	72	85	26	Clear
Jan 14	San Francisco	113	100	74	87	26	Clear
Jan 15	San Francisco	114	102	76	89	26	Clear
Jan 16	San Francisco	115	104	78	91	26	Clear
Jan 17	San Francisco	116	106	80	93	26	Clear
Jan 18	San Francisco	117	108	82	95	26	Clear
Jan 19	San Francisco	118	110	84	97	26	Clear
Jan 20	San Francisco	119	112	86	99	26	Clear
Jan 21	San Francisco	120	114	88	101	26	Clear
Jan 22	San Francisco	121	116	90	103	26	Clear
Jan 23	San Francisco	122	118	92	105	26	Clear
Jan 24	San Francisco	123	120	94	107	26	Clear
Jan 25	San Francisco	124	122	96	109	26	Clear
Jan 26	San Francisco	125	124	98	111	26	Clear
Jan 27	San Francisco	126	126	100	113	26	Clear
Jan 28	San Francisco	127	128	102	115	26	Clear
Jan 29	San Francisco	128	130	104	117	26	Clear
Jan 30	San Francisco	129	132	106	119	26	Clear
Jan 31	San Francisco	130	134	108	121	26	Clear
Feb 1	San Francisco	131	136	110	123	26	Clear
Feb 2	San Francisco	132	138	112	125	26	Clear
Feb 3	San Francisco	133	140	114	127	26	Clear
Feb 4	San Francisco	134	142	116	129	26	Clear
Feb 5	San Francisco	135	144	118	131	26	Clear
Feb 6	San Francisco	136	146	120	133	26	Clear
Feb 7	San Francisco	137	148	122	135	26	Clear
Feb 8	San Francisco	138	150	124	137	26	Clear
Feb 9	San Francisco	139	152	126	139	26	Clear
Feb 10	San Francisco	140	154	128	141	26	Clear
Feb 11	San Francisco	141	156	130	143	26	Clear
Feb 12	San Francisco	142	158	132	145	26	Clear
Feb 13	San Francisco	143	160	134	147	26	Clear
Feb 14	San Francisco	144	162	136	149	26	Clear
Feb 15	San Francisco	145	164	138	151	26	Clear
Feb 16	San Francisco	146	166	140	153	26	Clear
Feb 17	San Francisco	147	168	142	155	26	Clear
Feb 18	San Francisco	148	170	144	157	26	Clear
Feb 19	San Francisco	149	172	146	159	26	Clear
Feb 20	San Francisco	150	174	148	161	26	Clear
Feb 21	San Francisco	151	176	150	163	26	Clear
Feb 22	San Francisco	152	178	152	165	26	Clear
Feb 23	San Francisco	153	180	154	167	26	Clear
Feb 24	San Francisco	154	182	156	169	26	Clear
Feb 25	San Francisco	155	184	158	171	26	Clear
Feb 26	San Francisco	156	186	160	173	26	Clear
Feb 27	San Francisco	157	188	162	175	26	Clear
Feb 28	San Francisco	158	190	164	177	26	Clear
Feb 29	San Francisco	159	192	166	179	26	Clear
Feb 30	San Francisco	160	194	168	181	26	Clear
Feb 31	San Francisco	161	196	170	183	26	Clear

	Criterion	Terman	Hoke		Tressler		Total	
			1	2	3	4	5	6
100000	69	755	✓ 7	✓ 115	49	13225	805	
1000000000	46	474	-16	-166	256	27556	2656	
10000000000	77	729	✓ 15	✓ 89	225	7921	1335	
100000000000	74	687	✓ 12	✓ 47	144	2209	564	
1000000000000	55	605	- 7	-35	49	1225	245	
10000000000000	78	716	✓ 16	✓ 76	256	5776	1216	
100000000000000	61	758	- 1	✓ 118	1	13924		118
1000000000000000	63	622	✓ 1	-18	1	324		18
10000000000000000	48	537	-14	-103	196	10609	1442	
100000000000000000	50	609	-12	-31	144	961	372	
1000000000000000000	53	711	- 9	✓ 71	81	5041		639
10000000000000000000	67	619	✓ 5	-21	25	441		105
100000000000000000000	57	548	- 5	-92	25	8464	460	
1000000000000000000000	63	671	✓ 1	✓ 31	1	961	31	
10000000000000000000000	60	588	- 2	-55	4	3025	110	
100000000000000000000000	69	633	✓ 7	- 7	49	49		49
1000000000000000000000000	61	751	- 1	✓ 111	1	12321		111
10000000000000000000000000	66	560	✓ 4	-80	16	6400		320
100000000000000000000000000	74	669	✓ 12	✓ 29	144	841	348	
Stebner	41	536	-21	-104	441	10816	2184	
Uhlin	64	655	✓ 2	✓ 15	4	225	30	
		1296 13430			2112 132314	✓ 11798	-1360	
		62 640			100.52 6300.67	-1360		
CORRELATION		✓ 10438			10.02 79.38	✓ 10438		
		21x10.02x79.38			✓ .62			

APPENDIX B

Multiple Correlations of Each Two Tests

THE UNIVERSITY OF CHICAGO

$$\begin{aligned}
 R_{C.12} &= \frac{1/\sqrt{.48^2 \neq .38^2 - 2 \times .48 \times .38 \times .34}}{1 - .34^2} \\
 &= \frac{1/\sqrt{.2304 \neq .1444 - .124032}}{1 - .1156} \\
 &= \frac{1/\sqrt{.250768}}{.9844} = \neq .50
 \end{aligned}$$

$$\begin{aligned}
 R_{C.13} &= \frac{1/\sqrt{.48^2 \neq .47^2 - 2 \times .48 \times .47 \times .60}}{1 - .60^2} \\
 &= \frac{1/\sqrt{.2304 \neq .2209 - 2 \times .48 \times .47 \times .60}}{1 - .36} \\
 &= \frac{1/\sqrt{.22058}}{.64} = \neq .59
 \end{aligned}$$

$$\begin{aligned}
 R_{C.14} &= \frac{1/\sqrt{.48^2 \neq .23^2 - 2 \times .48 \times .23 \times .35}}{1 - .35^2} \\
 &= \frac{1/\sqrt{.2304 \neq .0529 - .077280}}{1 - .1225} \\
 &= \frac{1/\sqrt{.20586}}{.8775} = \neq .48
 \end{aligned}$$

$$\begin{aligned}
 R_{C.15} &= \frac{1/\sqrt{.48^2 - .09^2 - 2 \times .48 \times .09 \times .34}}{1 - .34^2} \\
 &= \frac{1/\sqrt{.2304 - .0081 - .029776}}{1 - .1156} \\
 &= \frac{1/\sqrt{.208724}}{.8844} = \frac{.47}{.8844}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.16} &= \frac{1/\sqrt{.48^2 - .40^2 - 2 \times .48 \times .40 \times .74}}{1 - .74^2} \\
 &= \frac{1/\sqrt{.2304 - .16 - 2 \times .48 \times .40 \times .74}}{1 - .5476} \\
 &= \frac{1/\sqrt{.1062}}{.4524} = \frac{.67}{.4524}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.17} &= \frac{1/\sqrt{.48^2 - .44^2 - 2 \times .48 \times .44 \times .36}}{1 - .36^2} \\
 &= \frac{1/\sqrt{.2304 - .1936 - 2 \times .48 \times .44 \times .36}}{1 - .1296} \\
 &= \frac{1/\sqrt{.1839}}{.87} = \frac{.47}{.87}
 \end{aligned}$$

$$\frac{100.000 + 100.000 + 100.000}{100.000} = 3.00$$

$$\frac{100.000 + 100.000 + 100.000}{100.000} =$$

$$100.000 = \frac{100.000}{100.000} =$$

$$\frac{100.000 + 100.000 + 100.000}{100.000} = 3.00$$

$$\frac{100.000 + 100.000 + 100.000}{100.000} =$$

$$100.000 = \frac{100.000}{100.000} =$$

$$\frac{100.000 + 100.000 + 100.000}{100.000} = 3.00$$

$$\frac{100.000 + 100.000 + 100.000}{100.000} =$$

$$100.000 = \frac{100.000}{100.000} =$$

$$\begin{aligned}
 R_{C.18} &= \frac{1/\sqrt{.48^2 \cancel{-} .45^2 - 2 \times .48 \times .45 \times .34}}{1 - .34^2} \\
 &= \frac{1/\sqrt{.2304 \cancel{-} .2025 - .14688}}{1 - .1156} \\
 &= \frac{1/\sqrt{.28602}}{.8844} = \cancel{.57}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.19} &= \frac{1/\sqrt{.48^2 \cancel{-} .31^2 - 2 \times .48 \times .31 \times .17}}{1 - .17^2} \\
 &= \frac{1/\sqrt{.2304 \cancel{-} .0961 - .050592}}{1 - .0289} \\
 &= \frac{1/\sqrt{.275908}}{.9711} = \cancel{.52}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.1 \ 10} &= \frac{1/\sqrt{.48^2 \cancel{-} .27^2 - 2 \times .48 \times .27 \times .02}}{1 - .02^2} \\
 &= \frac{1/\sqrt{.2304 \cancel{-} .0729 - .005184}}{1 - .0004} \\
 &= \frac{1/\sqrt{.298116}}{.9996} = \cancel{.55}
 \end{aligned}$$

$$\frac{2.14 \times 10^4 + 1.2 \times 10^4 + 1.1 \times 10^4}{2.14 \times 10^4} = 1.02$$

$$\frac{2.14 \times 10^4 + 1.2 \times 10^4 + 1.1 \times 10^4}{2.14 \times 10^4} =$$

$$1.02 = \frac{2.14 \times 10^4}{2.14 \times 10^4} =$$

$$\frac{2.14 \times 10^4 + 1.2 \times 10^4 + 1.1 \times 10^4}{2.14 \times 10^4} = 1.02$$

$$\frac{2.14 \times 10^4 + 1.2 \times 10^4 + 1.1 \times 10^4}{2.14 \times 10^4} =$$

$$1.02 = \frac{2.14 \times 10^4}{2.14 \times 10^4} =$$

$$\frac{2.14 \times 10^4 + 1.2 \times 10^4 + 1.1 \times 10^4}{2.14 \times 10^4} = 1.02$$

$$\frac{2.14 \times 10^4 + 1.2 \times 10^4 + 1.1 \times 10^4}{2.14 \times 10^4} =$$

$$1.02 = \frac{2.14 \times 10^4}{2.14 \times 10^4} =$$

$$\begin{aligned}
 R_{C.1 H1} &= 1 / \frac{.48^2 \cancel{.11^2} - 2 \times .48 \times .11 \times .17}{1 - .17^2} \\
 &= 1 / \frac{.2304 \cancel{.0121} - .017952}{1 - .0289} \\
 &= 1 / \frac{.224548}{.9711} = \cancel{.47}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.1 H2} &= 1 / \frac{\cancel{.48^2} \cancel{(-.41)^2} - 2 \times .48 \times (-.41) \times (-.19)}{1 - (-.19)^2} \\
 &= 1 / \frac{.2305 \cancel{.1681} - .074784}{1 - .0361} \\
 &= 1 / \frac{.323716}{.9639} = \cancel{.57}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.1 H3} &= 1 / \frac{.48^2 \cancel{.23^2} - 2 \times .48 \times .23 \times .34}{1 - .34^2} \\
 &= 1 / \frac{.2305 \cancel{.0529} - .075072}{1 - .1156} \\
 &= 1 / \frac{.208228}{.8844} = \cancel{.49}
 \end{aligned}$$

1. The first part of the paper is devoted to a discussion of the

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$$\begin{aligned}
 R_{C.1 H4} &= \frac{1/\sqrt{.48^2 \wedge .73^2 - 2 \times .48 \times .73 \times .48}}{1 - .48^2} \\
 &= \frac{1/\sqrt{.2304 \wedge .5329 - 2 \times .48 \times .73 \times .48}}{1 - .2304} \\
 &= \frac{1/\sqrt{.426916}}{.7696} = \wedge .70
 \end{aligned}$$

$$\begin{aligned}
 R_{C.1 H5} &= \frac{1/\sqrt{.48^2 \wedge .43^2 - 2 \times .48 \times .43 \times .20}}{1 - .20^2} \\
 &= \frac{1/\sqrt{.2304 \wedge .1849 - 2 \times .48 \times .43 \times .20}}{1 - .4} \\
 &= \frac{1/\sqrt{.33274}}{.6} = \wedge .74
 \end{aligned}$$

$$\begin{aligned}
 R_{C.1 H6} &= \frac{1/\sqrt{.48^2 \wedge .47^2 - 2 \times .48 \times .47 \times .44}}{1 - .44^2} \\
 &= \frac{1/\sqrt{.2304 \wedge .2209 - .198528}}{1 - .1936} \\
 &= \frac{1/\sqrt{.252772}}{.8064} = \wedge .55
 \end{aligned}$$

$$\begin{aligned}
 R_{C.1 H7} &= \frac{1}{\frac{.48^2 \cancel{.07^2} - 2 \times .48 \times .07 \times -.17}{1 - (-.17^2)}} \\
 &= \frac{1}{\frac{.2304 \cancel{.0049} - 2 \times .48 \times .07 \times -.17}{1 \cancel{.0289}}} \\
 &= \frac{1}{\frac{.246724}{1.0289}} = \cancel{.65}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.1 Tr} &= \frac{1}{\frac{.48^2 \cancel{.51^2} - 2 \times .48 \times .51 \times .48}{1 - .48^2}} \\
 &= \frac{1}{\frac{.2304 \cancel{.2601} - 2 \times .48 \times .51 \times .48}{1 - .2304}} \\
 &= \frac{1}{\frac{.255492}{.7696}} = \cancel{.57}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.23} &= \frac{1}{\frac{.38^2 \cancel{.47^2} - 2 \times .38 \times .47 \times .67}{1 - .67^2}} \\
 &= \frac{1}{\frac{.1444 \cancel{.2209} - .237984}{1 - .4489}} \\
 &= \frac{1}{\frac{.227316}{.5511}} = \cancel{.64}
 \end{aligned}$$

$$\frac{27. \pm 17. \pm 23. \pm 3 - 900. \pm 100.}{(27. \pm 17. \pm 23. \pm 3 - 900. \pm 100.)} \sqrt{1} = 2.5$$

$$\frac{24. \pm 17. \pm 23. \pm 3 - 900. \pm 100.}{(24. \pm 17. \pm 23. \pm 3 - 900. \pm 100.)} \sqrt{1} =$$

$$23.4 = \frac{21740.}{620.1} \sqrt{1} =$$

$$\frac{21. \pm 17. \pm 23. \pm 3 - 900. \pm 100.}{(21. \pm 17. \pm 23. \pm 3 - 900. \pm 100.)} \sqrt{1} = 17.1$$

$$\frac{20. \pm 17. \pm 23. \pm 3 - 900. \pm 100.}{(20. \pm 17. \pm 23. \pm 3 - 900. \pm 100.)} \sqrt{1} =$$

$$20.4 = \frac{21407.}{1067.} \sqrt{1} =$$

$$\frac{19. \pm 17. \pm 23. \pm 3 - 900. \pm 100.}{(19. \pm 17. \pm 23. \pm 3 - 900. \pm 100.)} \sqrt{1} = 20.2$$

$$\frac{18000. - 900. - 200.}{(18000. - 900. - 200.)} \sqrt{1} =$$

$$20.4 = \frac{18000.}{2000.} \sqrt{1} =$$

$$\begin{aligned}
 R_{C.24} &= \frac{1}{\frac{.38^2 \cancel{.23^2} - 2 \times .38 \times .23 \times .56}{1 - .56^2}} \\
 &= \frac{1}{\frac{.1444 \cancel{.0529} - .097888}{1 - .3136}} \\
 &= \frac{1}{\frac{.099412}{.6864}} = \cancel{.37}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.25} &= \frac{1}{\frac{.38^2 \cancel{.09^2} - 2 \times .38 \times .09 \times .26}{1 - .26^2}} \\
 &= \frac{1}{\frac{.1444 \cancel{.0081} - .017784}{1 - .0676}} \\
 &= \frac{1}{\frac{.134716}{.9324}} = \cancel{.37}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.26} &= \frac{1}{\frac{.38^2 \cancel{.40^2} - 2 \times .38 \times .40 \times .24}{1 - .24^2}} \\
 &= \frac{1}{\frac{.1444 \cancel{.16} - .072960}{1 - .0576}} \\
 &= \frac{1}{\frac{.23144}{.9424}} = \cancel{.48}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.27} &= \frac{1/\sqrt{.38^2 + .44^2 - 2 \times .38 \times .44 \times .50}}{1 - .50^2} \\
 &= \frac{1/\sqrt{.1444 + .1936 - .1672}}{1 - .25} \\
 &= \frac{1/\sqrt{.1708}}{.75} = \frac{.46}{.75}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.28} &= \frac{1/\sqrt{.38^2 + .45^2 - 2 \times .38 \times .45 \times .26}}{1 - .26^2} \\
 &= \frac{1/\sqrt{.1444 + .2025 - .08892}}{1 - .0676} \\
 &= \frac{1/\sqrt{.25798}}{.9324} = \frac{.51}{.9324}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.29} &= \frac{1/\sqrt{.38^2 + .31^2 - 2 \times .38 \times .31 \times .30}}{1 - .30^2} \\
 &= \frac{1/\sqrt{.1444 + .0961 - .07068}}{1 - .09} \\
 &= \frac{1/\sqrt{.16982}}{.91} = \frac{.42}{.91}
 \end{aligned}$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

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$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\begin{aligned}
 R_{C.2 \text{ H1}} &= \frac{1/\sqrt{.38^2 \cancel{.07^2} - 2 \times .38 \times .07 \times -.17}}{1 - (-.17)^2} \\
 &= \frac{1/\sqrt{.1444 \cancel{.0049} \cancel{.009044}}}{1 - .0289} \\
 &= \frac{1/\sqrt{.158344}}{.9711} = \cancel{.40}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.2 \text{ H2}} &= \frac{1/\sqrt{.38^2 \cancel{.11^2} - 2 \times .38 \times .11 \times -.07}}{1 - (-.07)^2} \\
 &= \frac{1/\sqrt{.1444 \cancel{.0121} \cancel{.005852}}}{1 - .0049} \\
 &= \frac{1/\sqrt{.162352}}{.9971} = \cancel{.40}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.2 \text{ H3}} &= \frac{1/\sqrt{.38^2 \cancel{(-.41)^2} - 2 \times .38 \times (-.41) \times (-.31)}}{1 - (-.31)^2} \\
 &= \frac{1/\sqrt{.1444 \cancel{.1681} - .096596}}{1 - .0961} \\
 &= \frac{1/\sqrt{.215904}}{.9039} = \cancel{.49}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.2 H3} &= 1 / \frac{.38^2 \neq .23^2 - 2 \times .38 \times .23 \times .20}{1 - .20^2} \\
 &= 1 / \frac{.1521 \neq .0529 - .03496}{1 - .04} \\
 &= 1 / \frac{.17004}{.96} = \neq .41
 \end{aligned}$$

$$\begin{aligned}
 R_{C.2 H4} &= 1 / \frac{.38^2 \neq .73^2 - 2 \times .38 \times .73 \times .43}{1 - .43^2} \\
 &= 1 / \frac{.1444 \neq .5329 - 2 \times .38 \times .73 \times .43}{1 - .1849} \\
 &= 1 / \frac{.266736}{.8151} = \neq .58
 \end{aligned}$$

$$\begin{aligned}
 R_{C.2 H5} &= 1 / \frac{.38^2 \neq .43^2 - 2 \times .38 \times .43 \times .26}{1 - .26^2} \\
 &= 1 / \frac{.1444 \neq .1849 - .084968}{1 - .0676} \\
 &= 1 / \frac{.244332}{.9324} = \neq .51
 \end{aligned}$$



$$\frac{2. + 3. + 4. + 5. + 6. + 7. + 8. + 9. + 10.}{10.} = 5.5$$

$$\frac{10. + 11. + 12. + 13. + 14. + 15. + 16. + 17. + 18. + 19. + 20.}{20.} = 15.5$$

$$21. = \frac{2000.}{100.} = 20.$$

$$\frac{21. + 22. + 23. + 24. + 25. + 26. + 27. + 28. + 29. + 30.}{30.} = 25.5$$

$$\frac{31. + 32. + 33. + 34. + 35. + 36. + 37. + 38. + 39. + 40.}{40.} = 35.5$$

$$41. = \frac{4000.}{100.} = 40.$$

$$\frac{41. + 42. + 43. + 44. + 45. + 46. + 47. + 48. + 49. + 50.}{50.} = 45.5$$

$$\frac{51. + 52. + 53. + 54. + 55. + 56. + 57. + 58. + 59. + 60.}{60.} = 55.5$$

$$61. = \frac{6000.}{100.} = 60.$$

$$\begin{aligned}
 R_{C.2 \text{ H6}} &= \frac{1/\sqrt{.38^2 + .47^2 - 2 \times .38 \times .47 \times .12}}{1 - .12^2} \\
 &= \frac{1/\sqrt{.1444 + .2209 - .042864}}{1 - .0144} \\
 &= \frac{1/\sqrt{.322436}}{.9856} = \frac{.56}{.9856}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.2 \text{ H7}} &= \frac{1/\sqrt{.38^2 + .07^2 - 2 \times .38 \times .07 \times (-.25)}}{1 - (-.25)^2} \\
 &= \frac{1/\sqrt{.1444 + .0049 - -.013300}}{1 - .0625} \\
 &= \frac{1/\sqrt{.162600}}{.9375} = \frac{.41}{.9375}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.2 \text{ Tr}} &= \frac{1/\sqrt{.38^2 + .51^2 - 2 \times .38 \times .51 \times .54}}{1 - .54^2} \\
 &= \frac{1/\sqrt{.1444 + .2601 - .209304}}{1 - .2916} \\
 &= \frac{1/\sqrt{.195196}}{.7084} = \frac{.52}{.7084}
 \end{aligned}$$

$$\frac{20. + 20. + 20. + 20. + 20. + 20.}{20.} = 6.0$$

$$\frac{2000. + 2000. + 2000.}{2000.} = 3$$

$$20. = \frac{2000.}{100.}$$

$$\frac{20. + 20. + 20. + 20. + 20. + 20.}{20.} = 6.0$$

$$\frac{2000. + 2000. + 2000.}{2000.} = 3$$

$$20. = \frac{2000.}{100.}$$

$$\frac{20. + 20. + 20. + 20. + 20. + 20.}{20.} = 6.0$$

$$\frac{2000. + 2000. + 2000.}{2000.} = 3$$

$$20. = \frac{2000.}{100.}$$

$$\begin{aligned}
 R_{C.34} &= \frac{1/\sqrt{.47^2 + .23^2 - 2 \times .47 \times .23 \times .66}}{1 - .66^2} \\
 &= \frac{1/\sqrt{.2209 + .0529 - .142692}}{1 - .4356} \\
 &= \frac{1/\sqrt{.131108}}{.5644} = \frac{.48}{.5644}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.35} &= \frac{1/\sqrt{.47^2 + .09^2 - 2 \times .47 \times .09 \times .25}}{1 - .25^2} \\
 &= \frac{1/\sqrt{.2209 + .0081 - .02115}}{1 - .0625} \\
 &= \frac{1/\sqrt{.20785}}{.9375} = \frac{.47}{.9375}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.36} &= \frac{1/\sqrt{.47^2 + .40^2 - 2 \times .47 \times .40 \times .63}}{1 - .63^2} \\
 &= \frac{1/\sqrt{.2209 + .1600 - .236880}}{1 - .3969} \\
 &= \frac{1/\sqrt{.144020}}{.6031} = \frac{.48}{.6031}
 \end{aligned}$$

$$\frac{2.1 \times 10^4 + 2.1 \times 10^4 + 2.1 \times 10^4}{3} = 2.1 \times 10^4$$

$$\frac{2.1 \times 10^4 + 2.1 \times 10^4 + 2.1 \times 10^4}{3} = 2.1 \times 10^4$$

$$2.1 \times 10^4 = \frac{2.1 \times 10^4}{1} = 2.1 \times 10^4$$

$$\frac{2.1 \times 10^4 + 2.1 \times 10^4 + 2.1 \times 10^4}{3} = 2.1 \times 10^4$$

$$\frac{2.1 \times 10^4 + 2.1 \times 10^4 + 2.1 \times 10^4}{3} = 2.1 \times 10^4$$

$$2.1 \times 10^4 = \frac{2.1 \times 10^4}{1} = 2.1 \times 10^4$$

$$\frac{2.1 \times 10^4 + 2.1 \times 10^4 + 2.1 \times 10^4}{3} = 2.1 \times 10^4$$

$$\frac{2.1 \times 10^4 + 2.1 \times 10^4 + 2.1 \times 10^4}{3} = 2.1 \times 10^4$$

$$2.1 \times 10^4 = \frac{2.1 \times 10^4}{1} = 2.1 \times 10^4$$

$$\begin{aligned}
 R_{C.37} &= 1 / \frac{.47^2 \neq .44^2 - 2 \times .47 \times .44 \times .56}{1 - .56^2} \\
 &= 1 / \frac{.2209 \neq .1936 - .231616}{1 - .3136} \\
 &= 1 / \frac{.182884}{.6864} = \neq .51
 \end{aligned}$$

$$\begin{aligned}
 R_{C.38} &= 1 / \frac{.47^2 \neq .45^2 - 2 \times .47 \times .45 \times .24}{1 - .24^2} \\
 &= 1 / \frac{.2209 \neq .2025 - .101520}{1 - .0576} \\
 &= 1 / \frac{.321880}{.9424} = \neq .58
 \end{aligned}$$

$$\begin{aligned}
 R_{C.39} &= 1 / \frac{.47^2 \neq .31^2 - 2 \times .47 \times .31 \times .34}{1 - .34^2} \\
 &= 1 / \frac{.2209 \neq .0961 - .099076}{1 - .1156} \\
 &= 1 / \frac{.217924}{.8844} = \neq .49
 \end{aligned}$$

$$\begin{aligned}
 R_{C.3 \ 10} &= \frac{1/\sqrt{.47^2 \neq .27^2 - 2 \times .47 \times .27 \times .19}}{1 - .19^2} \\
 &= \frac{1/\sqrt{.2209 \neq .0729 - .048222}}{1 - .0361} \\
 &= \frac{1/\sqrt{.245578}}{.9639} = \neq .50
 \end{aligned}$$

$$\begin{aligned}
 R_{C.3 \ H1} &= \frac{1/\sqrt{.47^2 \neq .11^2 - 2 \times .47 \times .11 \times (-.12)}}{1 - (-.12)^2} \\
 &= \frac{1/\sqrt{.2209 \neq .0121 \neq .012408}}{1 - .0144} \\
 &= \frac{1/\sqrt{.245408}}{.9856} = \neq .49
 \end{aligned}$$

$$\begin{aligned}
 R_{C.3 \ H2} &= \frac{1/\sqrt{.47^2 \neq (-.41)^2 - 2 \times .47 \times (-.41) \times (-.18)}}{1 - (-.18)^2} \\
 &= \frac{1/\sqrt{.2209 \neq .1681 - .069372}}{1 - .0324} \\
 &= \frac{1/\sqrt{.319628}}{.9676} = \neq .57
 \end{aligned}$$

$$\frac{1000000 - 1000000 \cdot 10^{-10} \cdot 10^{-10}}{1000000 - 1000000 \cdot 10^{-10} \cdot 10^{-10}} = 10^{-10}$$

$$\frac{1000000 - 1000000 \cdot 10^{-10} \cdot 10^{-10}}{1000000 - 1000000 \cdot 10^{-10} \cdot 10^{-10}} = 10^{-10}$$

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$$\frac{1000000 - 1000000 \cdot 10^{-10} \cdot 10^{-10}}{1000000 - 1000000 \cdot 10^{-10} \cdot 10^{-10}} = 10^{-10}$$

$$R_{C.3 H3} = \frac{1/\sqrt{.47^2 \wedge .23^2 - 2 \times .47 \times .23 \times .40}}{1 - .40^2}$$

$$= \frac{1/\sqrt{.2209 \wedge .0529 - .08648}}{1 - .16}$$

$$= \frac{1/\sqrt{.18732}}{.84} = \wedge .47$$

$$R_{C.3 H4} = \frac{1/\sqrt{.47^2 \wedge .73^2 - 2 \times .47 \times .73 \times .61}}{1 - .62^2}$$

$$= \frac{1/\sqrt{.2209 \wedge .5329 - 2 \times .47 \times .73 \times .61}}{1 - .3844}$$

$$= \frac{1/\sqrt{.335218}}{.6156} = \wedge .73$$

$$R_{C.3 H5} = \frac{1/\sqrt{.47^2 \wedge .43^2 - 2 \times .47 \times .43 \times .29}}{1 - .29^2}$$

$$= \frac{1/\sqrt{.2209 \wedge .1849 - .117218}}{1 - .0841}$$

$$= \frac{1/\sqrt{.288582}}{.9159} = \wedge .56$$

1. The first part of the paper is devoted to a general discussion of the problem.

2. In the second part, we consider the case of a single particle.

3. The third part is devoted to the case of a system of particles.

4. In the fourth part, we consider the case of a system of particles in a magnetic field.

5. The fifth part is devoted to the case of a system of particles in a magnetic field.

6. In the sixth part, we consider the case of a system of particles in a magnetic field.

7. The seventh part is devoted to the case of a system of particles in a magnetic field.

8. In the eighth part, we consider the case of a system of particles in a magnetic field.

9. The ninth part is devoted to the case of a system of particles in a magnetic field.

$$\begin{aligned}
 R_{C.3 H6} &= 1 / \frac{.47^2 \cancel{.47^2} - 2 \times .47 \times .47 \times .31}{1 - .31^2} \\
 &= 1 / \frac{.2209 \cancel{.2209} - .136958}{1 - .0961} \\
 &= 1 / \frac{.304842}{.9039} = \cancel{.57}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.3 H7} &= 1 / \frac{.47^2 \cancel{.07^2} - 2 \times .47 \times .07 \times (-.09)}{1 - (-.09)^2} \\
 &= 1 / \frac{.2209 \cancel{.0049} \cancel{.005922}}{1 - .0081} \\
 &= 1 / \frac{.231722}{.9919} = \cancel{.48}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.3 Tr} &= 1 / \frac{.47^2 \cancel{.51^2} - 2 \times .47 \times .51 \times .43}{1 - .43^2} \\
 &= 1 / \frac{.2209 \cancel{.2601} - .206142}{1 - .1849} \\
 &= 1 / \frac{.274858}{.8151} = \cancel{.58}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.45} &= 1 / \frac{.23^2 \cancel{.09^2} - 2 \times .23 \times .09 \times .25}{1 - .25^2} \\
 &= 1 / \frac{.0529 \cancel{.0081} - .01035}{1 - .0625} \\
 &= 1 / \frac{.05065}{.9375} = \cancel{.22}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.46} &= 1 / \frac{.23^2 \cancel{.40^2} - 2 \times .23 \times .40 \times .45}{1 - .45^2} \\
 &= 1 / \frac{.0529 \cancel{.16} - .0828}{1 - .2025} \\
 &= 1 / \frac{.1301}{.7975} = \cancel{.40}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.47} &= 1 / \frac{.23^2 \cancel{.44^2} - 2 \times .23 \times .44 \times .64}{1 - .64^2} \\
 &= 1 / \frac{.0529 \cancel{.1936} - .129536}{1 - .4096} \\
 &= 1 / \frac{.116964}{.5904} = \cancel{.44}
 \end{aligned}$$

$$\frac{a_1 + a_2 + \dots + a_n - \frac{1}{2}(a_1 + a_n)}{n-1} = \frac{a_1 + a_n}{2}$$

$$\frac{a_1 + a_2 + \dots + a_n - \frac{1}{2}(a_1 + a_n)}{n-1} = \frac{a_1 + a_n}{2}$$

$$a_1 + a_n = \frac{2(a_1 + a_n)}{2}$$

$$\frac{a_1 + a_2 + \dots + a_n - \frac{1}{2}(a_1 + a_n)}{n-1} = \frac{a_1 + a_n}{2}$$

$$\frac{a_1 + a_2 + \dots + a_n - \frac{1}{2}(a_1 + a_n)}{n-1} = \frac{a_1 + a_n}{2}$$

$$a_1 + a_n = \frac{2(a_1 + a_n)}{2}$$

$$\frac{a_1 + a_2 + \dots + a_n - \frac{1}{2}(a_1 + a_n)}{n-1} = \frac{a_1 + a_n}{2}$$

$$\frac{a_1 + a_2 + \dots + a_n - \frac{1}{2}(a_1 + a_n)}{n-1} = \frac{a_1 + a_n}{2}$$

$$a_1 + a_n = \frac{2(a_1 + a_n)}{2}$$

$$\begin{aligned}
 R_{C.48} &= 1 / \frac{.23^2 \neq .45^2 - 2 \times .23 \times .45 \times .42}{1 - .42^2} \\
 &= 1 / \frac{.0529 \neq .2025 - .086940}{1 - .1764} \\
 &= 1 / \frac{.368460}{.8236} = \neq .67
 \end{aligned}$$

$$\begin{aligned}
 R_{C.49} &= 1 / \frac{.23^2 \neq .31^2 - 2 \times .23 \times .31 \times .71}{1 - .71^2} \\
 &= 1 / \frac{.0529 \neq .0961 - .101246}{1 - .5041} \\
 &= 1 / \frac{.047754}{.4959} = \neq .30
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 \ 10} &= 1 / \frac{.23^2 \neq .27^2 - 2 \times .23 \times .27 \times .22}{1 - .22^2} \\
 &= 1 / \frac{.0529 \neq .0729 - .027324}{1 - .0484} \\
 &= 1 / \frac{.098476}{.9516} = \neq .32
 \end{aligned}$$

$$\frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{1} = 0.000$$

$$\frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{2} =$$

$$P_{13} = \frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{3} =$$

$$\frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{4} = 0.000$$

$$\frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{5} =$$

$$P_{14} = \frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{6} =$$

$$\frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{7} = 0.000$$

$$\frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{8} =$$

$$P_{15} = \frac{P_1 + P_2 + P_3 + P_4 + P_5 + P_6 + P_7 + P_8 + P_9 + P_{10}}{P_{11} + P_{12}} \sqrt{9} =$$

$$\begin{aligned}
 R_{C.4 H1} &= 1 / \frac{.23^2 \cancel{+} .11^2 - 2 \times .23 \times .11 \times (-.30)}{1 - (-.30)^2} \\
 &= 1 / \frac{.0529 \cancel{+} .0121 \cancel{+} .01458}{1 - .09} \\
 &= 1 / \frac{.07958}{.91} = \cancel{+}.30
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 H2} &= 1 / \frac{.23^2 \cancel{+} (-.41)^2 - 2 \times .23 \times -.41 \times -.37}{1 - (-.37)^2} \\
 &= 1 / \frac{.0529 \cancel{+} .1681 - .069708}{1 - .1369} \\
 &= 1 / \frac{.151292}{.8631} = \cancel{+}.42
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 H3} &= 1 / \frac{.23^2 \cancel{+} .23^2 - 2 \times .23 \times .23 \times .50}{1 - .50^2} \\
 &= 1 / \frac{.0529 \cancel{+} .0529 - .0529}{1 - .25} \\
 &= 1 / \frac{.0529}{.75} = \cancel{+}.26
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 H4} &= 1 / \frac{.23^2 \cancel{.73} - 2 \times .23 \times .73 \times .52}{1 - .52^2} \\
 &= 1 / \frac{.0529 \cancel{.5329} - 2 \times .23 \times .73 \times .52}{1 - .2704} \\
 &= 1 / \frac{.411184}{.7296} = \cancel{.75}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 H5} &= 1 / \frac{.23^2 \cancel{.43^2} - 2 \times .23 \times .43 \times .57}{1 - .57^2} \\
 &= 1 / \frac{.0529 \cancel{.1849} - .112746}{1 - .3249} \\
 &= 1 / \frac{.125054}{.6751} = \cancel{.44}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 H6} &= 1 / \frac{.23^2 \cancel{.47^2} - 2 \times .23 \times .47 \times .12}{1 - .12^2} \\
 &= 1 / \frac{.0529 \cancel{.2209} - .025944}{1 - .0144} \\
 &= 1 / \frac{.247856}{.9856} = \cancel{.50}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 \text{ H7}} &= 1 / \frac{.23^2 \cancel{+} .07^2 - 2 \times .23 \times .07 \times (-.22)}{1 - (-.22)^2} \\
 &= 1 / \frac{.0529 \cancel{+} .0049 \cancel{+} .007084}{1 - .0484} \\
 &= 1 / \frac{.064884}{.9516} = \cancel{+}.26
 \end{aligned}$$

$$\begin{aligned}
 R_{C.4 \text{ Tr}} &= 1 / \frac{.23^2 \cancel{+} .51^2 - 2 \times .23 \times .51 \times .47}{1 - .47^2} \\
 &= 1 / \frac{.0529 \cancel{+} .2601 - .110262}{1 - .2209} \\
 &= 1 / \frac{.202738}{.7791} = \cancel{+}.51
 \end{aligned}$$

$$\begin{aligned}
 R_{C.56} &= 1 / \frac{.09^2 \cancel{+} .40^2 - 2 \times .09 \times .40 \times .16}{1 - .16^2} \\
 &= 1 / \frac{.0081 \cancel{+} .16 - .01152}{1 - .0256} \\
 &= 1 / \frac{.15658}{.9744} = \cancel{+}.40
 \end{aligned}$$

$$\begin{aligned}
 R_{C.57} &= \frac{1/\sqrt{.09^2 \cancel{.44^2} - 2 \times .09 \times .44 \times .03}}{1 - .03^2} \\
 &= \frac{1/\sqrt{.0081 \cancel{.1936} - .002376}}{1 - .0009} \\
 &= \frac{1/\sqrt{.199324}}{.9991} = \cancel{.45}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.58} &= \frac{1/\sqrt{.09^2 \cancel{.45^2} - 2 \times .09 \times .45 \times (-.14)}}{1 - (-.14)^2} \\
 &= \frac{1/\sqrt{.0081 \cancel{.2025} \cancel{.01134}}}{1 - .0196} \\
 &= \frac{1/\sqrt{.22194}}{.9804} = \cancel{.47}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.59} &= \frac{1/\sqrt{.09^2 \cancel{.31^2} - 2 \times .09 \times .31 \times .07}}{1 - .07^2} \\
 &= \frac{1/\sqrt{.0081 \cancel{.0961} - .003906}}{1 - .0049} \\
 &= \frac{1/\sqrt{.100294}}{.9951} = \cancel{.31}
 \end{aligned}$$

$$\frac{10. + 10. + 10. + 10. + 10. + 10.}{10. + 10.} \sqrt{1} = 10. + 10.$$

$$\frac{10. + 10. + 10. + 10. + 10. + 10.}{10. + 10.} \sqrt{1} =$$

$$10. + 10. = 20. + 10. \sqrt{1} =$$

$$\frac{10. + 10. + 10. + 10. + 10. + 10.}{10. + 10.} \sqrt{1} = 10. + 10.$$

$$\frac{10. + 10. + 10. + 10. + 10. + 10.}{10. + 10.} \sqrt{1} =$$

$$10. + 10. = 20. + 10. \sqrt{1} =$$

$$\frac{10. + 10. + 10. + 10. + 10. + 10.}{10. + 10.} \sqrt{1} = 10. + 10.$$

$$\frac{10. + 10. + 10. + 10. + 10. + 10.}{10. + 10.} \sqrt{1} =$$

$$10. + 10. = 20. + 10. \sqrt{1} =$$

$$\begin{aligned}
 R_{C.5 \ 10} &= 1 / \frac{.09^2 \cancel{.27^2} - 2 \times .09 \times .27 \times .19}{1 - .19^2} \\
 &= 1 / \frac{.081 \cancel{.0729} - .009234}{1 - .0361} \\
 &= 1 / \frac{.071766}{.9639} = \cancel{.26}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 \ H1} &= 1 / \frac{.09^2 \cancel{.11^2} - 2 \times .09 \times .11 \times -.24}{1 - (-.24)^2} \\
 &= 1 / \frac{.0081 \cancel{.0121} \cancel{.004752}}{1 - .0576} \\
 &= 1 / \frac{.024952}{.9424} = \cancel{.14}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 \ H2} &= 1 / \frac{.09^2 \cancel{(.41)^2} - 2 \times .09 \times -.41 \times -.24}{1 - (-.24)^2} \\
 &= 1 / \frac{.0081 \cancel{.1681} - .017712}{1 - .0576} \\
 &= 1 / \frac{.158488}{.9424} = \cancel{.40}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 H3} &= 1 / \sqrt{\frac{.09^2 \cancel{.23^2} - 2 \times .09 \times .23 \times .40}{1 - .40^2}} \\
 &= 1 / \sqrt{\frac{.0081 \cancel{.0529} - .01656}{1 - .16}} \\
 &= 1 / \sqrt{\frac{.04444}{.84}} = \cancel{.22}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 H4} &= 1 / \sqrt{\frac{.09^2 \cancel{.73^2} - 2 \times .09 \times .73 \times -.13}{1 - (-.13)^2}} \\
 &= 1 / \sqrt{\frac{.0081 \cancel{.5329} - 2 \times .09 \times .73 \times -.13}{1 - (-.0169)}} \\
 &= 1 / \sqrt{\frac{.558082}{1.0169}} = \cancel{.74}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 H5} &= 1 / \sqrt{\frac{.09^2 \cancel{.43^2} - 2 \times .09 \times .43 \times .19}{1 - .19^2}} \\
 &= 1 / \sqrt{\frac{.0081 \cancel{.1849} - .014706}{1 - .0361}} \\
 &= 1 / \sqrt{\frac{.178294}{.9639}} = \cancel{.42}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 \text{ H6}} &= 1 / \frac{.09^2 \neq .47^2 - 2 \times .09 \times .47 \times .22}{1 - .22^2} \\
 &= 1 / \frac{.0081 \neq .2209 - .016412}{1 - .0484} \\
 &= 1 / \frac{.212588}{.9516} = \neq .47
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 \text{ H7}} &= 1 / \frac{.09^2 \neq .07^2 - 2 \times .09 \times .07 \times .10}{1 - .10^2} \\
 &= 1 / \frac{.0081 \neq .0049 - .00126}{1 - .01} \\
 &= 1 / \frac{.01174}{.99} = \neq .10
 \end{aligned}$$

$$\begin{aligned}
 R_{C.5 \text{ Tr}} &= 1 / \frac{.09^2 \neq .51^2 - 2 \times .09 \times .51 \times .23}{1 - .23^2} \\
 &= 1 / \frac{.0081 \neq .2601 - .021114}{1 - .0529} \\
 &= 1 / \frac{.247086}{.9471} = \neq .151
 \end{aligned}$$

$$\begin{aligned}
 R_{C.67} &= \frac{1}{\frac{.40^2 \neq .44^2 - 2 \times .40 \times .44 \times .32}{1 - .32^2}} \\
 &= \frac{1}{\frac{.16 \neq .1936 - .11264}{1 - .1024}} \\
 &= \frac{1}{\frac{.24096}{.8976}} = \neq .52
 \end{aligned}$$

$$\begin{aligned}
 R_{C.68} &= \frac{1}{\frac{.40^2 \neq .45^2 - 2 \times .40 \times .45 \times .39}{1 - .39^2}} \\
 &= \frac{1}{\frac{.16 \neq .2025 - .1404}{1 - .1521}} \\
 &= \frac{1}{\frac{.2221}{.8479}} = \neq .51
 \end{aligned}$$

$$\begin{aligned}
 R_{C.69} &= \frac{1}{\frac{.40^2 \neq .31^2 - 2 \times .40 \times .31 \times .23}{1 - .23^2}} \\
 &= \frac{1}{\frac{.16 \neq .0961 - .029440}{1 - .0529}} \\
 &= \frac{1}{\frac{.22666}{.9471}} = \neq .48
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 \ 10} &= 1 / \frac{.40^2 \cancel{+} .27^2 - 2 \times .40 \times .27 \times -.24}{1 - (-.24)^2} \\
 &= 1 / \frac{.16 \cancel{+} .0729 \cancel{+} .05184}{1 - .0576} \\
 &= 1 / \frac{.28474}{.9424} = \cancel{+}.55
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 \ H1} &= 1 / \frac{.40^2 \cancel{+} .11^2 - 2 \times .40 \times .11 \times .20}{1 - .20^2} \\
 &= 1 / \frac{.1600 \cancel{+} .0121 - .0176}{1 - .04} \\
 &= 1 / \frac{.1545}{.96} = \cancel{+}.40
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 \ H2} &= 1 / \frac{.40^2 \cancel{+} (-.41)^2 - 2 \times .40 \times -.41 \times -.08}{1 - (-.08)^2} \\
 &= 1 / \frac{.16 \cancel{+} .1681 - .02624}{1 - .0064} \\
 &= 1 / \frac{.30186}{.9936} = \cancel{+}.55
 \end{aligned}$$

$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} = 10^{-1} \cdot 10^{-1}$$
$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} =$$
$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} =$$

$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} = 10^{-1} \cdot 10^{-1}$$
$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} =$$
$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} =$$

$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} = 10^{-1} \cdot 10^{-1}$$
$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} =$$
$$\frac{A_{100} - A_{100} \cdot 10^{-1} \cdot 10^{-1}}{10^{-1} \cdot 10^{-1}} \sqrt{10^{-1} \cdot 10^{-1}} =$$

$$\begin{aligned}
 R_{C.6 \ H3} &= 1 / \frac{.40^2 \neq .23^2 - 2 \times .40 \times .23 \times .44}{1 - .44^2} \\
 &= 1 / \frac{.1600 \neq .0529 - .080960}{1 - .1936} \\
 &= 1 / \frac{.131940}{.8064} = \neq .40
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 \ H4} &= 1 / \frac{.40^2 \neq .73^2 - 2 \times .40 \times .73 \times .43}{1 - .43^2} \\
 &= 1 / \frac{.16 \neq .5329 - 2 \times .40 \times .73 \times .43}{1 - .1849} \\
 &= 1 / \frac{.44178}{.8151} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 \ H5} &= 1 / \frac{.40^2 \neq .43^2 - 2 \times .40 \times .43 \times .28}{1 - .28^2} \\
 &= 1 / \frac{.16 \neq .1849 - .09632}{1 - .0784} \\
 &= 1 / \frac{.24858}{.9216} = \neq .52
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 H6} &= 1 / \frac{.40^2 \cancel{.47^2} - 2 \times .40 \times .47 \times .49}{1 - .49^2} \\
 &= 1 / \frac{.16 \cancel{.2209} - .18424}{1 - .2401} \\
 &= 1 / \frac{.19666}{.7599} = \cancel{.51}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 H7} &= 1 / \frac{.40^2 \cancel{.07^2} - 2 \times .40 \times .07 \times .009}{1 - .009^2} \\
 &= 1 / \frac{.1600 \cancel{.0049} - .000504}{1 - .000081} \\
 &= 1 / \frac{.164396}{.999919} = \cancel{.45}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.6 Tr} &= 1 / \frac{.40^2 \cancel{.51^2} - 2 \times .40 \times .51 \times .44}{1 - .44^2} \\
 &= 1 / \frac{.16 \cancel{.2601} - .17952}{1 - .1936} \\
 &= 1 / \frac{.24058}{.8064} = \cancel{.54}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.78} &= 1 / \frac{.44^2 / .45^2 - 2 \times .44 \times .45 \times .20}{1 - .20^2} \\
 &= 1 / \frac{.1936 / .2025 - .0792}{1 - .04} \\
 &= 1 / \frac{.3169}{.96} = / .57
 \end{aligned}$$

$$\begin{aligned}
 R_{C.79} &= 1 / \frac{.44^2 / .31^2 - 2 \times .44 \times .31 \times .45}{1 - .45^2} \\
 &= 1 / \frac{.1936 / .0961 - .12276}{1 - .2025} \\
 &= 1 / \frac{.16694}{.7975} = / .45
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 \ 10} &= 1 / \frac{.44^2 / .27^2 - 2 \times .44 \times .27 \times .41}{1 - .41^2} \\
 &= 1 / \frac{.1936 / .0729 - .097416}{1 - .1681} \\
 &= 1 / \frac{.169084}{.8319} = / .45
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 \text{ H1}} &= 1 / \frac{.44^2 \neq .11^2 - 2 \times .44 \times .11 \times -.35}{1 - (-.35)^2} \\
 &= 1 / \frac{.1936 \neq .0121 \neq .03388}{1 - .1225} \\
 &= 1 / \frac{.23958}{.8775} = \neq .52
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 \text{ H2}} &= 1 / \frac{.44^2 \neq (-.41)^2 - 2 \times .44 \times (-.41) \times -.43}{1 - (-.43)^2} \\
 &= 1 / \frac{.1936 \neq .1681 - .155144}{1 - .1849} \\
 &= 1 / \frac{.206556}{.8151} = \neq .50
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 \text{ H3}} &= 1 / \frac{.44^2 \neq .23^2 - 2 \times .44 \times .23 \times .31}{1 - .31^2} \\
 &= 1 / \frac{.1936 \neq .0529 - .062744}{1 - .0961} \\
 &= 1 / \frac{.183756}{.9039} = \neq .45
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 H4} &= 1 / \frac{.44^2 / .73^2 - 2 \times .44 \times .73 \times .44}{1 - .44^2} \\
 &= 1 / \frac{.1936 / .5329 - 2 \times .44 \times .73 \times .44}{1 - .1936} \\
 &= 1 / \frac{.443844}{.8064} = / .74
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 H5} &= 1 / \frac{.44^2 / .43^2 - 2 \times .44 \times .43 \times .32}{1 - .32^2} \\
 &= 1 / \frac{.1936 / .1849 - .121088}{1 - .1024} \\
 &= 1 / \frac{.257412}{.8976} = / .53
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 H6} &= 1 / \frac{.44^2 / .47^2 - 2 \times .44 \times .47 \times .35}{1 - .35^2} \\
 &= 1 / \frac{.1936 / .2209 - .14466}{1 - .1225} \\
 &= 1 / \frac{.26984}{.8775} = / .55
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 H7} &= 1 / \frac{.44^2 \neq .07^2 - 2 \times .44 \times .07 \times - .02}{1 - (-.02)^2} \\
 &= 1 / \frac{.1936 \neq .0049 \neq .001232}{1 - .0004} \\
 &= 1 / \frac{.199732}{.9996} = \neq .45
 \end{aligned}$$

$$\begin{aligned}
 R_{C.7 Tr} &= 1 / \frac{.44^2 \neq .51^2 - 2 \times .44 \times .51 \times .64}{1 - .64^2} \\
 &= 1 / \frac{.1936 \neq .2601 - .287232}{1 - .4096} \\
 &= 1 / \frac{.166468}{.5904} = \neq .53
 \end{aligned}$$

$$\begin{aligned}
 R_{C.89} &= 1 / \frac{.45^2 \neq .31^2 - 2 \times .45 \times .31 \times .41}{1 - .41^2} \\
 &= 1 / \frac{.2025 \neq .0961 - .11439}{1 - .1681} \\
 &= 1 / \frac{.18421}{.8319} = \neq .47
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ 10}} &= 1 / \sqrt{\frac{.45^2 \cancel{+} .27^2 - 2 \times .45 \times .27 \times - .03}{1 - (-.03)^2}} \\
 &= 1 / \sqrt{\frac{.2025 \cancel{+} .0729 \cancel{+} .00729}{1 - .0009}} \\
 &= 1 / \sqrt{\frac{.28269}{.9991}} = \cancel{+}.53
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ H1}} &= 1 / \sqrt{\frac{.45^2 \cancel{+} .11^2 - 2 \times .45 \times .11 \times - .01}{1 - (-.01)^2}} \\
 &= 1 / \sqrt{\frac{.2025 \cancel{+} .0121 \cancel{+} .00099}{1 - .0001}} \\
 &= 1 / \sqrt{\frac{.21559}{.9999}} = \cancel{+}.47
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ H2}} &= 1 / \sqrt{\frac{.45^2 \cancel{+} (-.41)^2 - 2 \times .45 \times (-.41) \times (-.19)}{1 - (-.19)^2}} \\
 &= 1 / \sqrt{\frac{.2025 \cancel{+} .1681 - .07011}{1 - .0361}} \\
 &= 1 / \sqrt{\frac{.30049}{.9639}} = \cancel{+}.56
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ H3}} &= 1 / \frac{.45^2 \neq .23^2 - 2 \times .45 \times .23 \times .29}{1 - .29^2} \\
 &= 1 / \frac{.2025 \neq .0529 - .06003}{1 - .0841} \\
 &= 1 / \frac{.19537}{.9159} = \neq .46
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ H4}} &= 1 / \frac{.45^2 \neq .73^2 - 2 \times .45 \times .73 \times .51}{1 - .51^2} \\
 &= 1 / \frac{.2025 \neq .5329 - 2 \times .45 \times .73 \times .51}{1 - .2601} \\
 &= 1 / \frac{.40033}{.7399} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ H5}} &= 1 / \frac{.45^2 \neq .43^2 - 2 \times .45 \times .43 \times .45}{1 - .45^2} \\
 &= 1 / \frac{.2025 \neq .1849 - .17415}{1 - .2025} \\
 &= 1 / \frac{.21325}{.7975} = \neq .52
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ H6}} &= \frac{1}{\sqrt{\frac{.45^2 \cancel{.47^2} - 2 \times .45 \times .47 \times .16}{1 - .16^2}}} \\
 &= \frac{1}{\sqrt{\frac{.2025 \cancel{.2209} - .06768}{1 - .0256}}} \\
 &= \frac{1}{\sqrt{\frac{.35572}{.9744}}} = \cancel{.60}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ H7}} &= \frac{1}{\sqrt{\frac{.45^2 \cancel{.07^2} - 2 \times .45 \times .07 \times -.05}{1 - (-.05)^2}}} \\
 &= \frac{1}{\sqrt{\frac{.2025 \cancel{.0049} \cancel{.00315}}{1 - .0025}}} \\
 &= \frac{1}{\sqrt{\frac{.21055}{.9975}}} = \cancel{.45}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.8 \text{ Tr}} &= \frac{1}{\sqrt{\frac{.45^2 \cancel{.51^2} - 2 \times .45 \times .51 \times .38}{1 - .38^2}}} \\
 &= \frac{1}{\sqrt{\frac{.2045 \cancel{.2601} - .06042}{1 - .1444}}} \\
 &= \frac{1}{\sqrt{\frac{.20218}{.8556}}} = \cancel{.49}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 \ 10} &= 1 / \frac{.31^2 \neq .27^2 - 2 \times .31 \times .27 \times .08}{1 - .08^2} \\
 &= 1 / \frac{.0961 \neq .0729 - .013392}{1 - .0064} \\
 &= 1 / \frac{.155608}{.9936} = \neq .39
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 \ H1} &= 1 / \frac{.31^2 \neq .11^2 - 2 \times .31 \times .11 \times -.33}{1 - (-.33)^2} \\
 &= 1 / \frac{.0961 \neq .0121 \neq .022506}{1 - .1089} \\
 &= 1 / \frac{.130706}{.8911} = \neq .39
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 \ H2} &= 1 / \frac{.31^2 \neq (-.41)^2 - 2 \times .31 \times -.41 \times -.65}{1 - (-.65)^2} \\
 &= 1 / \frac{.0961 \neq .1681 - .16523}{1 - .4225} \\
 &= 1 / \frac{.09897}{.5775} = \neq .41
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 H3} &= 1 / \frac{.31^2 / .23^2 - 2 \times .31 \times .23 \times .57}{1 - .57^2} \\
 &= 1 / \frac{.0961 / .0529 - .081282}{1 - .3249} \\
 &= 1 / \frac{.067718}{.6751} = / .32
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 H4} &= 1 / \frac{.31^2 / .73^2 - 2 \times .31 \times .73 \times .30}{1 - .30^2} \\
 &= 1 / \frac{.0961 / .5329 - .13578}{1 - .09} \\
 &= 1 / \frac{.49322}{.91} = / .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 H5} &= 1 / \frac{.31^2 / .43^2 - 2 \times .31 \times .43 \times .74}{1 - .74^2} \\
 &= 1 / \frac{.0961 / .1849 - .197284}{1 - .5476} \\
 &= 1 / \frac{.083716}{.4524} = / .42
 \end{aligned}$$

$$\frac{2.1 \times 10^{-10} \times 10^{-10} \times 10^{-10} \times 10^{-10} \times 10^{-10}}{10^{-10}} = 10^{-10}$$

$$\frac{2.1 \times 10^{-10} \times 10^{-10} \times 10^{-10} \times 10^{-10} \times 10^{-10}}{10^{-10}} = 10^{-10}$$

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$$\frac{2.1 \times 10^{-10} \times 10^{-10} \times 10^{-10} \times 10^{-10} \times 10^{-10}}{10^{-10}} = 10^{-10}$$

$$\begin{aligned}
 R_{C.9 \text{ H6}} &= 1 / \frac{.31^2 \neq .47^2 - 2 \times .31 \times .47 \times -.07}{1 - (-.07)^2} \\
 &= 1 / \frac{.0961 \neq .2209 \neq .020398}{1 - .0049} \\
 &= 1 / \frac{.337398}{.9951} = \neq .57
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 \text{ H7}} &= 1 / \frac{.31^2 \neq .07^2 - 2 \times .31 \times .07 \times (-.21)}{1 - (-.21)^2} \\
 &= 1 / \frac{.0961 \neq .0049 \neq .009114}{1 - .0441} \\
 &= 1 / \frac{.110114}{.9559} = \neq .33
 \end{aligned}$$

$$\begin{aligned}
 R_{C.9 \text{ Tr}} &= 1 / \frac{.31^2 \neq .51^2 - 2 \times .31 \times .51 \times .41}{1 - .41^2} \\
 &= 1 / \frac{.0961 \neq .2601 - .129642}{1 - .1681} \\
 &= 1 / \frac{.226558}{.8319} = \neq .52
 \end{aligned}$$

$$\begin{aligned} \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d^2}{dt^2} \right) &= \frac{1}{2} \frac{d^3}{dt^3} \\ \frac{1}{2} \frac{d^2}{dt^2} &= \frac{1}{2} \frac{d^2}{dt^2} \\ \frac{1}{2} \frac{d}{dt} &= \frac{1}{2} \frac{d}{dt} \\ \frac{1}{2} &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d^2}{dt^2} \right) &= \frac{1}{2} \frac{d^3}{dt^3} \\ \frac{1}{2} \frac{d^2}{dt^2} &= \frac{1}{2} \frac{d^2}{dt^2} \\ \frac{1}{2} \frac{d}{dt} &= \frac{1}{2} \frac{d}{dt} \\ \frac{1}{2} &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} \frac{d^2}{dt^2} \right) &= \frac{1}{2} \frac{d^3}{dt^3} \\ \frac{1}{2} \frac{d^2}{dt^2} &= \frac{1}{2} \frac{d^2}{dt^2} \\ \frac{1}{2} \frac{d}{dt} &= \frac{1}{2} \frac{d}{dt} \\ \frac{1}{2} &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned}
 R_{C.10 H1} &= 1 / \sqrt{\frac{.27^2 \neq .11^2 - 2 \times .27 \times .11 \times -.48}{1 - (-.48)^2}} \\
 &= 1 / \sqrt{\frac{.0729 \neq .0121 \neq .028512}{1 - .2304}} \\
 &= 1 / \sqrt{\frac{.113512}{.7696}} = \neq .37
 \end{aligned}$$

$$\begin{aligned}
 R_{C.10 H2} &= 1 / \sqrt{\frac{.27^2 \neq (-.41)^2 - 2 \times .27 \times (-.41) \times (-.26)}{1 - (-.26)^2}} \\
 &= 1 / \sqrt{\frac{.0729 \neq .1681 - .057562}{1 - .0676}} \\
 &= 1 / \sqrt{\frac{.183438}{.9324}} = \neq .44
 \end{aligned}$$

$$\begin{aligned}
 R_{C.10 H3} &= 1 / \sqrt{\frac{.27^2 \neq .23^2 - 2 \times .27 \times .23 \times (-.01)}{1 - (-.01)^2}} \\
 &= 1 / \sqrt{\frac{.0729 \neq .0529 \neq .001242}{1 - .0001}} \\
 &= 1 / \sqrt{\frac{.127042}{.9999}} = \neq .35
 \end{aligned}$$

$$\frac{100.00 \times 100.00 - 100.00 \times 100.00}{100.00} \sqrt{100.00} = 100.00$$

$$\frac{100.00 \times 100.00 - 100.00 \times 100.00}{100.00} \sqrt{100.00} =$$

$$100.00 \times 100.00 \sqrt{100.00} =$$

$$\frac{100.00 \times 100.00 - 100.00 \times 100.00}{100.00} \sqrt{100.00} = 100.00$$

$$\frac{100.00 \times 100.00 - 100.00 \times 100.00}{100.00} \sqrt{100.00} =$$

$$100.00 \times 100.00 \sqrt{100.00} =$$

$$\frac{100.00 \times 100.00 - 100.00 \times 100.00}{100.00} \sqrt{100.00} = 100.00$$

$$\frac{100.00 \times 100.00 - 100.00 \times 100.00}{100.00} \sqrt{100.00} =$$

$$100.00 \times 100.00 \sqrt{100.00} =$$

$$\begin{aligned}
 R_{C.10 \text{ H4}} &= 1 / \frac{.27^2 \neq .73^2 - 2 \times .27 \times .73 \times .30}{1 - .30^2} \\
 &= 1 / \frac{.0729 \neq .5329 - .11826}{1 - .09} \\
 &= 1 / \frac{.48754}{.91} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.10 \text{ H5}} &= 1 / \frac{.27^2 \neq .43^2 - 2 \times .27 \times .43 \times .25}{1 - .25^2} \\
 &= 1 / \frac{.0729 \neq .1849 - .05805}{1 - .0625} \\
 &= 1 / \frac{.19975}{.9375} = \neq .46
 \end{aligned}$$

$$\begin{aligned}
 R_{C.10 \text{ H6}} &= 1 / \frac{.27^2 \neq .47^2 - 2 \times .27 \times .47 \times .30}{1 - .30^2} \\
 &= 1 / \frac{.0729 \neq .2209 - .07614}{1 - .09} \\
 &= 1 / \frac{.21766}{.91} = \neq .48
 \end{aligned}$$

$$\begin{aligned}
 R_{C.10 \ H7} &= 1 / \frac{.27^2 \cancel{-} .07^2 - 2 \times .27 \times .07 \times .15}{1 - .15^2} \\
 &= 1 / \frac{.0729 \cancel{-} .0049 - .005670}{1 - .0225} \\
 &= 1 / \frac{.072130}{.9775} = \cancel{-}.26
 \end{aligned}$$

$$\begin{aligned}
 R_{C.10 \ Tr} &= 1 / \frac{.27^2 \cancel{-} .51^2 - 2 \times .27 \times .51 \times .21}{1 - .21^2} \\
 &= 1 / \frac{.0729 \cancel{-} .2601 - .057834}{1 - .0441} \\
 &= 1 / \frac{.275166}{.9559} = \cancel{-}.53
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H1 \ H2} &= 1 / \frac{.11^2 \cancel{-} (-.41)^2 - 2 \times .11 \times (-.41) \times .06}{1 - .06^2} \\
 &= 1 / \frac{.0121 \cancel{-} .1681 \cancel{-} .005412}{1 - .0036} \\
 &= 1 / \frac{.185612}{.9964} = \cancel{-}.42
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H1 H3} &= 1 / \frac{.11^2 \neq .23^2 - 2 \times .11 \times .23 \times (-.02)}{1 - (-.02)^2} \\
 &= 1 / \frac{.0121 \neq .0529 \neq .001012}{1 - .0004} \\
 &= 1 / \frac{.066012}{.9996} = \neq .24
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H1 H4} &= 1 / \frac{.11^2 \neq .73^2 - 2 \times .11 \times .73 \times -.05}{1 - (-.05)^2} \\
 &= 1 / \frac{.0121 \neq .5329 - 2 \times .11 \times .73 \times -.05}{1 - (-.0025)} \\
 &= 1 / \frac{.55303}{1.0025} = \neq .74
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H1 H5} &= 1 / \frac{.11^2 \neq .43^2 - 2 \times .11 \times .43 \times (-.13)}{1 - (-.13)^2} \\
 &= 1 / \frac{.0121 \neq .1849 \neq .012298}{1 - .0169} \\
 &= 1 / \frac{.209298}{.9831} = \neq .46
 \end{aligned}$$

$$\frac{1}{\sqrt{1-x^2}} = \frac{1}{\sqrt{1-x^2}} \cdot \frac{1}{1} = \frac{1}{\sqrt{1-x^2}}$$

$$\frac{1}{\sqrt{1-x^2}} = \frac{1}{\sqrt{1-x^2}} \cdot \frac{1}{1} = \frac{1}{\sqrt{1-x^2}}$$

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$$\frac{1}{\sqrt{1-x^2}} = \frac{1}{\sqrt{1-x^2}} \cdot \frac{1}{1} = \frac{1}{\sqrt{1-x^2}}$$

$$\begin{aligned}
 R_{C.H1 H6} &= 1 / \frac{.11^2 \cancel{.47^2} - 2 \times .11 \times .47 \times .38}{1 - .38^2} \\
 &= 1 / \frac{.0121 \cancel{.2209} - .039292}{1 - .1444} \\
 &= 1 / \frac{.193708}{.8556} = \cancel{.47}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H1 H7} &= 1 / \frac{.11^2 \cancel{.07^2} - 2 \times .11 \times .07 \times .20}{1 - .20^2} \\
 &= 1 / \frac{.0121 \cancel{.0049} - .00308}{1 - .04} \\
 &= 1 / \frac{.01392}{.96} = \cancel{.10}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H1 Tr} &= 1 / \frac{.11^2 \cancel{.51^2} - 2 \times .11 \times .51 \times (-.12)}{1 - (-.12)^2} \\
 &= 1 / \frac{.0121 \cancel{.2601} \cancel{.013464}}{1 - .0144} \\
 &= 1 / \frac{.285664}{.9856} = \cancel{.53}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H2 H3} &= \frac{1}{\sqrt{\frac{(-.41)^2}{.23^2} - 2 \times (-.41) \times .23 \times (-.52)}} \\
 &= \frac{1}{\sqrt{\frac{.1618}{.0529} - .098072}} \\
 &= \frac{1}{\sqrt{.122928}} = \frac{1}{.40} \\
 &= .7296
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H2 H4} &= \frac{1}{\sqrt{\frac{(-.41)^2}{.73^2} - 2 \times -.41 \times .73 \times -.25}} \\
 &= \frac{1}{\sqrt{\frac{-.1681}{.5329} - 2 \times -.41 \times .73 \times -.25}} \\
 &= \frac{1}{\sqrt{.21515}} = \frac{1}{.48} \\
 &= .9375
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H2 H5} &= \frac{1}{\sqrt{\frac{(-.41)^2}{.43^2} - 2(-.41) \times .43 \times (-.34)}} \\
 &= \frac{1}{\sqrt{\frac{.1681}{.1849} - .119884}} \\
 &= \frac{1}{\sqrt{.233116}} = \frac{1}{.51} \\
 &= .8844
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H2 H6} &= \frac{1}{\sqrt{\frac{(-.41)^2 \cancel{.47^2} - 2 \times (-.41) \times .47 \times (-.07)}{1 - (-.07)^2}}} \\
 &= \frac{1}{\sqrt{\frac{.1681 \cancel{.2209} - .026978}{1 - .0049}}} \\
 &= \frac{1}{\sqrt{\frac{.362022}{.9951}}} = \cancel{.60}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H2 H7} &= \frac{1}{\sqrt{\frac{(-.41)^2 \cancel{.07^2} - 2 \times (-.41) \times .07 \times (-.02)}{1 - (-.02)^2}}} \\
 &= \frac{1}{\sqrt{\frac{.1681 \cancel{.0049} - .001148}{1 - .0004}}} \\
 &= \frac{1}{\sqrt{\frac{.171852}{.9996}}} = \cancel{.41}
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H2 Tr} &= \frac{1}{\sqrt{\frac{(-.41)^2 \times .51^2 - 2 \times (-.41) \times .51 \times (-.26)}{1 - (-.26)^2}}} \\
 &= \frac{1}{\sqrt{\frac{.1681 \cancel{.2601} - .108732}{1 - .0676}}} \\
 &= \frac{1}{\sqrt{\frac{.219468}{.9324}}} = \cancel{.48}
 \end{aligned}$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

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$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = 1$$

$$\begin{aligned}
 R_{C.H3 H4} &= 1 / \frac{.23^2 \neq .73^2 - 2 \times .23 \times .73 \times .28}{1 - .28^2} \\
 &= 1 / \frac{.0529 \neq .5329 - .088144}{1 - .0784} \\
 &= 1 / \frac{.497656}{.9216} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H3 H5} &= 1 / \frac{.23^2 \neq .43^2 - 2 \times .23 \times .43 \times .43}{1 - .43^2} \\
 &= 1 / \frac{.0529 \neq .1849 - .085054}{1 - .1849} \\
 &= 1 / \frac{.152746}{.8151} = \neq .42
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H3 H6} &= 1 / \frac{.23^2 \neq .47^2 - 2 \times .23 \times .47 \times .22}{1 - .22^2} \\
 &= 1 / \frac{.0529 \neq .2209 - .047564}{1 - .0484} \\
 &= 1 / \frac{.226236}{.9516} = \neq .48
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H3 H7} &= 1 / \frac{.23^2 \neq .07^2 - 2 \times .23 \times .07 \times .12}{1 - .12^2} \\
 &= 1 / \frac{.0529 \neq .0049 - .003864}{1 - .0144} \\
 &= 1 / \frac{.053936}{.9856} = \neq .22
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H3 Tr} &= 1 / \frac{.23^2 \neq .51^2 - 2 \times .23 \times .51 \times .23}{1 - .23^2} \\
 &= 1 / \frac{.0529 \neq .2601 - .053958}{1 - .0529} \\
 &= 1 / \frac{.259042}{.9471} = \neq .52
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H4 H5} &= 1 / \frac{.73^2 \neq .43^2 - 2 \times .73 \times .43 \times .56}{1 - .56^2} \\
 &= 1 / \frac{.5329 \neq .1849 - .351568}{1 - .3136} \\
 &= 1 / \frac{.366232}{.6864} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H4 H6} &= 1 / \frac{.73^2 \neq .47^2 - 2 \times .73 \times .47 \times .55}{1 - .55^2} \\
 &= 1 / \frac{.5329 \neq .2209 - 2 \times .47 \times .73 \times .55}{1 - .3025} \\
 &= 1 / \frac{.37639}{.6975} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H4 H7} &= 1 / \frac{.73^2 \neq .07^2 - 2 \times .73 \times .07 \times .18}{1 - .18^2} \\
 &= 1 / \frac{.5329 \neq .0049 - 2 \times .07 \times .73 \times .18}{1 - .0324} \\
 &= 1 / \frac{.519404}{.9676} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H4 Tr} &= 1 / \frac{.73^2 \neq .51^2 - 2 \times .73 \times .51 \times .67}{1 - .67^2} \\
 &= 1 / \frac{.5329 \neq .2601 - .498882}{1 - .4489} \\
 &= 1 / \frac{.294118}{.5511} = \neq .73
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H5 H6} &= 1 / \frac{.43^2 \neq .47^2 - 2 \times .43 \times .47 \times .31}{1 - .31^2} \\
 &= 1 / \frac{.1849 \neq .2209 - .125302}{1 - .0961} \\
 &= 1 / \frac{.280498}{.9039} = \neq .56
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H5 H7} &= 1 / \frac{.43^2 \neq .07^2 - 2 \times .43 \times .07 \times .02}{1 - .02^2} \\
 &= 1 / \frac{.1849 \neq .0049 - .001204}{1 - .0004} \\
 &= 1 / \frac{.188596}{.9996} = \neq .44
 \end{aligned}$$

$$\begin{aligned}
 R_{C. H5 Tr} &= 1 / \frac{.43^2 \neq .51^2 - 2 \times .43 \times .51 \times .67}{1 - .67^2} \\
 &= 1 / \frac{.1849 \neq .2601 - .293862}{1 - .4489} \\
 &= 1 / \frac{.151138}{.5511} = \neq .52
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H6 H7} &= 1 / \sqrt{\frac{.47^2 \neq .07^2 - 2 \times .47 \times .07 \times .55}{1 - .55^2}} \\
 &= 1 / \sqrt{\frac{.2209 \neq .0049 - .03619}{1 - .3025}} \\
 &= 1 / \sqrt{\frac{.18961}{.6975}} = \neq .52
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H6 Tr} &= 1 / \sqrt{\frac{.47^2 \neq .51^2 - 2 \times .47 \times .51 \times .31}{1 - .31^2}} \\
 &= 1 / \sqrt{\frac{.2209 \neq .2601 - .148614}{1 - .0961}} \\
 &= 1 / \sqrt{\frac{.332386}{.9039}} = \neq .57
 \end{aligned}$$

$$\begin{aligned}
 R_{C.H7 Tr} &= 1 / \sqrt{\frac{.07^2 \neq .51^2 - 2 \times .07 \times .51 \times .10}{1 - .10^2}} \\
 &= 1 / \sqrt{\frac{.0049 \neq .2601 - .007140}{1 - .0100}} \\
 &= 1 / \sqrt{\frac{.257860}{.9900}} = \neq .51
 \end{aligned}$$

APPENDIX C

Battery Content, Deviations, Rank and Products Moments
of Twenty-Two Batteries

THE HISTORY

OF THE
CITY OF BOSTON

Terman 1-2-9-10

Hoke 1-4

Battery Content, Deviations and Rank

	Terman 1	2	9	10	1	4	Total	Deviation	Rank
	"	"	"	"	Hoke	"			
1-1-10	15	22	14	16	67	74	208	✓24	(3)
1-1-11	12	10	11	6	80	30	149	-35	(20)
1-1-12	17	20	14	20	68	70	209	✓25	(2)
1-1-13	15	20	10	22	68	58	193	✓9	(9½)
1-1-14	13	16	11	14	71	52	177	-7	(14)
1-1-15	15	18	15	12	77	56	193	✓9	(9½)
1-1-16	17	18	15	18	66	64	198	✓14	(5)
1-1-17	15	20	13	20	66	42	176	-8	(15½)
1-1-18	12	22	14	14	69	30	161	-23	(18½)
1-1-19	11	16	12	20	66	36	161	-23	(18½)
1-1-20	16	22	14	18	68	56	194	✓10	(6)
1-1-21	10	20	15	18	70	52	185	✓1	(12)
1-1-22	16	22	13	14	64	44	173	-11	(17)
1-1-23	12	20	12	18	67	62	191	✓7	(11)
1-1-24	13	22	11	20	76	52	194	✓10	(8)
1-1-25	14	20	13	24	74	52	197	✓13	(7)
1-1-26	14	22	13	18	77	70	214	✓30	(1)
1-1-27	14	20	13	18	65	46	176	-8	(15½)
1-1-28	13	20	16	22	50	80	201	✓17	(4)
1-1-29	10	16	13	22	48	30	139	-45	(21)
1-1-30	14	22	13	14	69	52	184	0	(13)
	288	408	275	368	1426	1108	3873		
	14	19	13	18	68	53	184		

Table 1. Results of the analysis of variance for the effect of the treatment on the yield of the different components of the plant.

Treatment	Yield of the plant (g)	Yield of the roots (g)	Yield of the stems (g)	Yield of the leaves (g)	Yield of the flowers (g)	Yield of the fruits (g)	Yield of the seeds (g)
(1) Control	100	25	35	20	10	10	10
(2) 1/2 N	110	28	38	22	12	12	12
(3) 1/4 N	120	30	40	24	14	14	14
(4) 1/8 N	130	32	42	26	16	16	16
(5) 1/16 N	140	34	44	28	18	18	18
(6) 1/32 N	150	36	46	30	20	20	20
(7) 1/64 N	160	38	48	32	22	22	22
(8) 1/128 N	170	40	50	34	24	24	24
(9) 1/256 N	180	42	52	36	26	26	26
(10) 1/512 N	190	44	54	38	28	28	28
(11) 1/1024 N	200	46	56	40	30	30	30
(12) 1/2048 N	210	48	58	42	32	32	32
(13) 1/4096 N	220	50	60	44	34	34	34
(14) 1/8192 N	230	52	62	46	36	36	36
(15) 1/16384 N	240	54	64	48	38	38	38
(16) 1/32768 N	250	56	66	50	40	40	40
(17) 1/65536 N	260	58	68	52	42	42	42
(18) 1/131072 N	270	60	70	54	44	44	44
(19) 1/262144 N	280	62	72	56	46	46	46
(20) 1/524288 N	290	64	74	58	48	48	48

Criterion and Terman 1-2-9-10
Hoke 1-4

Products Moments

69	208	/ 7	/24	49	576	168	
46	149	-16	-35	256	1225	460	
77	209	/15	/25	225	625	375	
74	193	/12	/ 9	144	81	108	
55	177	- 7	- 7	49	49	49	
78	193	/16	/ 9	256	81	144	
61	198	- 1	/14	1	196		14
63	176	/ 1	- 8	1	64		8
48	161	-14	-23	196	529	322	
50	161	-12	-23	144	529	276	
53	194	- 9	/10	81	100		90
67	185	/ 5	/ 1	25	1	5	
57	173	- 5	-11	25	121	55	
63	191	/ 1	/ 7	1	49	7	
60	194	- 2	/10	4	100		20
69	197	/ 7	/13	49	169	91	
61	214	- 1	/30	1	900		30
66	176	/ 4	- 8	16	64		32
74	201	/12	/17	144	289	204	
41	139	-21	-45	441	2025	945	
64	184	/ 2	0	4	0		
<hr/>				2112	7773	/3309	194
1296	3873			100.52	370.14	- 194	
62	184			10.02	19.24	/3115	
<hr/>							
/3115				= / .769			
<hr/>							
21x10.02x19.24							

Terman 1-2-9-10

Hoke 1-5

Battery Content, Deviations and Rank

	Terman 1	2	9	10	1	5	Total	Deviation	Rank
	"	"	"	"	Hoke	"			
Adcock	15	22	14	16	67	72	206	18 (4)	
Annunziata	12	10	11	6	80	37	156	-32 (20)	
Ballantine	17	20	14	20	68	59	198	10 (7 $\frac{1}{2}$)	
Belkin	15	20	10	22	68	48	183	-5 (11 $\frac{1}{2}$)	
Cardillo	13	16	11	14	71	38	163	-25 (19)	
Corson	15	18	15	12	77	67	204	16 (5)	
Cunniffe	17	18	15	18	66	75	209	21 (3)	
DeMarco	15	20	13	20	66	58	192	4 (9)	
Gibson	12	22	14	14	69	48	179	-9 (17)	
Giordano	11	16	12	20	66	58	183	-5 (11 $\frac{1}{2}$)	
Greene	16	22	14	18	68	60	198	10 (7 $\frac{1}{2}$)	
Haley	10	20	15	18	70	80	213	25 (2)	
Hebert	16	22	13	14	64	52	181	-7 (14)	
LaChapelle	12	20	12	18	67	53	182	6 (13)	
Lyden	13	22	11	20	76	38	180	-8 (15 $\frac{1}{2}$)	
MacDougal	14	20	13	24	74	54	199	11 (6)	
McCauley	14	22	13	18	77	71	215	27 (1)	
McIntosh	14	20	13	18	65	50	180	-8 (15 $\frac{1}{2}$)	
Spencer	13	20	16	22	50	70	191	3 (10)	
Stebner	10	16	13	22	48	46	155	-33 (21)	
Uhlin	14	22	13	14	69	38	170	-18 (18)	
	288	408	275	368	1426	1172	3937		
	14	19	13	18	68	56	188		

Criterion and Terman 1-2-9-10
Hoke 1-5

Products Moments

								-
	69	206	/ 7	/18	49	324	126	
	46	156	-16	-32	256	1024	512	
	77	198	/15	/10	225	100	150	
	74	183	/12	- 5	144	25		60
	55	163	- 7	-25	49	625	175	
	78	204	/16	/16	256	256	256	
	61	209	- 1	/21	1	441		21
	63	192	/ 1	/ 4	1	16	4	
	48	179	-14	- 9	196	81	126	
	50	183	-12	- 5	144	25	60	
	53	198	- 9	/10	81	100		90
	67	213	/ 5	/25	25	625	125	
	57	181	- 5	- 7	25	49	35	
	63	182	/ 1	- 6	1	36		6
	60	180	- 2	- 8	4	64	16	
	69	199	/ 7	/11	49	121	77	
	61	215	- 1	/27	1	729		27
	66	180	/ 4	- 8	16	64		32
	74	191	/12	/ 3	144	9	36	
	41	155	-21	-33	441	1089	693	
	64	170	/ 2	-18	4	324		36
	1296	3937			2112	6127	/2391	-272
	62	188			100.52	291.76	-272	
CORRELATION			/2119		10.02	17.08	/2119	
			21x17.08x10.02		= / .59			

Battery Content, Deviations and Rank

	1 Terman	2 "	3 "	10 "	1 Hoke	6 "	Total	Deviation	Rank
Alford	15	22	14	16	67	116	250	+18	(7)
Amos, Lela	12	10	11	6	80	72	191	-41	(19 $\frac{1}{2}$)
Bellamy, Wm	17	20	14	20	68	116	255	+23	(3 $\frac{1}{2}$)
Baskin	15	20	10	22	68	120	255	+23	(3 $\frac{1}{2}$)
Cassidy	13	16	11	14	71	120	245	+13	(9)
Cassidy	15	18	15	12	77	108	245	+13	(9)
Omniffa	17	18	15	18	66	120	254	+22	(5 $\frac{1}{2}$)
Infante	15	20	13	20	66	120	254	+22	(5 $\frac{1}{2}$)
Wilcox	12	22	14	14	69	63	194	-38	(18)
Ward, Wm.	11	16	12	20	66	100	225	-7	(13)
Ward, Wm.	16	22	14	18	68	106	244	+12	(11 $\frac{1}{2}$)
Reley	10	20	15	18	70	80	213	-19	(15)
Robert	16	22	13	14	64	62	191	-41	(19 $\frac{1}{2}$)
LeBachelier	12	20	12	18	67	116	245	+13	(9)
Lyster	13	22	11	20	76	82	224	-8	(14)
MacDougall	14	20	13	24	74	120	265	+33	(1)
MacDougal	14	22	13	18	77	120	264	+32	(2)
McIntosh	14	20	13	18	65	80	210	-22	(16)
Spencer	13	20	16	22	50	88	209	-23	(17)
Shubner	10	16	13	22	48	78	186	-46	(21)
Willis	14	22	13	14	69	112	244	+12	(11 $\frac{1}{2}$)
	288	408	275	368	1426	2098	4863		
	14	19	13	18	68	100	232		

Criterion and Terman 1-2-9-10
Hoke 1-6

Products Moments

							-
	69	250	/ 7 /18	49	324	126	
	46	191	-16 -41	256	1681	656	
	77	255	/15 /23	225	529	345	
	74	255	/12 /23	144	529	276	
	55	245	- 7 /13	49	169		91
	78	245	/16 /13	256	169	208	
	61	254	- 1 /22	1	484		22
	63	254	/ 1 /22	1	484	22	
	48	194	-14 -38	196	1444	532	
	50	225	-12 - 7	144	49	84	
	53	244	- 9 /12	81	144		108
	67	213	/ 5 -19	25	361		95
	57	191	- 5 -41	25	1681	205	
	63	245	/ 1 /13	1	169	13	
	60	224	- 2 - 8	4	64	16	
	69	265	/ 7 /33	49	1089	231	
	61	264	- 1 /32	1	1024		32
	66	210	/ 4 -22	16	484		88
	74	209	/12 -23	144	529		276
	41	186	-21 -46	441	2116	966	
	64	244	/ 2 /12	4	144	24	

$$\begin{array}{r}
 1296 \quad 4863 \\
 62 \quad 232 \\
 \hline
 2112 \quad 13667 \quad /3704 \quad -712 \\
 100.52 \quad 650. \quad - 712 \\
 10.02 \quad 25.51 \quad /2992 \\
 \hline
 21 \times 25.51 \times 10.02 = / .56
 \end{array}$$

CORRELATION

Terman 1-2-8-9-10

Hoke 1-5

Battery Content, Deviations and Rank

	Terman 1	2	8	9	10	1	5	Total	Deviation	Rank
	"	"	"	"	"	Hoke				
Kosack	15	22	16	14	16	67	72	222	/25	(3)
Kommersatta	12	10	6	11	6	80	37	162	-35	(20)
Kallantaine	17	20	12	14	20	68	59	210	/13	(6)
Belkin	15	20	8	10	22	68	48	191	- 6	(13)
Cordillo	13	16	10	11	14	71	38	173	-24	(19)
Gerson	15	18	10	15	12	77	67	214	/17	(5)
Gunniffe	17	18	14	15	18	66	75	223	/26	(2)
DeHarco	15	20	0	13	20	66	58	192	- 5	(12)
Gibson	12	22	8	14	14	69	48	187	-10	(16)
Giordano	11	16	10	12	20	66	58	193	- 4	(11)
Gryson	16	22	10	14	18	68	60	208	/11	(8)
Baley	10	20	8	15	18	70	80	221	/24	(4)
Robert	16	22	8	13	14	64	52	189	- 8	(14)
LeChapelle	12	20	6	12	18	67	53	188	- 9	(15)
Lyden	13	22	6	11	20	76	38	186	-11	(17)
MacDougal	14	20	8	13	24	74	54	207	/10	(9)
McConley	14	22	14	13	18	77	71	229	/32	(1)
McFutresh	14	20	16	13	18	65	50	196	- 1	(10)
Spencer	13	20	18	16	22	50	70	209	/12	(7)
Stebner	10	16	0	13	22	48	46	155	-42	(21)
Ullin	14	22	10	13	14	69	38	180	-17	(18)
	288	408	198	275	368	1426	1172	4135		
	14	19	9	13	18	68	56	197		

Criterion and Terman 1-2-8-9-10
Hoke 1-5

Products Moments

	69	222	/ 7	/25	49	625	175	
	46	162	-16	-35	256	1225	560	
	77	210	/15	/13	225	169	195	
	74	191	/12	- 6	144	36		72
	55	173	- 7	-24	49	576	168	
	78	214	/16	/17	256	289	272	
	61	223	- 1	/26	1	676		26
	63	192	/ 1	- 5	1	25		5
	48	187	-14	-10	196	100	140	
	50	193	-12	- 4	144	16	48	
	53	208	- 9	/11	81	121		99
	67	221	/ 5	/24	25	576	120	
	57	189	- 5	- 8	25	64	40	
	63	188	/ 1	- 9	1	81		9
	60	186	- 2	-11	4	121	22	
	69	207	/ 7	/10	49	100	70	
	61	229	- 1	/32	1	1024		32
	66	196	/ 4	- 1	16	1		4
	74	209	/12	/12	144	144	144	
	41	155	-21	-42	441	1764	882	
	64	180	/ 2	-17	4	289		34
	1296	4135			2112	8022	/2836	-281
	62	197			100.52	382	- 281	
					10.02	19.54	/2555	
CORRELATION			/2555					
			21x19.54x10.02	=	/ .62			

1 1 1 1

Terman 1-2-8-9-10

Hoke 1-6

Battery Content, Deviations and Rank

	Terman 1	2	8	9	10	1	6			
	"	"	"	"	"	Hoke	"	Total	Deviation	Rank
Adams	15	22	16	14	16	67	116	266	✓25	(5)
Adams 1st	12	10	6	11	6	80	72	197	-44	(20)
Adams 2nd	17	20	12	14	20	68	116	267	✓26	(4)
Adams	15	20	8	10	22	68	120	263	✓22	(6)
Adams 3rd	13	16	10	11	14	71	120	255	✓14	(7½)
Adams	15	18	10	15	12	77	108	255	✓14	(7½)
Adams 4th	17	18	14	15	18	66	120	268	✓27	(3)
Adams	15	20	0	13	20	66	120	254	✓13	(10)
Adams	12	22	8	14	14	69	62	201	-40	(18)
Adams	11	16	10	12	20	66	100	235	- 6	(13)
Adams	16	22	10	14	18	68	106	254	✓13	(10)
Adams	10	20	8	15	18	70	80	221	-20	(17)
Adams	16	22	8	13	14	64	62	199	-42	(19)
Adams 1st	12	20	6	12	18	67	116	251	✓10	(12)
Adams	13	22	6	11	20	76	82	230	-11	(14)
Adams 2nd	14	20	8	13	24	74	120	273	✓32	(2)
Adams 3rd	14	22	14	13	18	77	120	278	✓37	(1)
Adams 4th	14	20	16	13	18	65	80	226	-15	(16)
Adams	13	20	18	16	22	50	88	227	-14	(15)
Adams	10	16	0	13	22	48	78	187	-54	(21)
Adams	14	22	10	13	14	69	112	254	✓13	(10)
	288	408	198	275	368	1426	2098	5061		
	14	19	9	13	18	68	100	241		

Criterion and Terman 1-2-8-9-10
Hoke 1-6

Products Moments

	69	266	/ 7	/25	49	625	175	
	46	197	-16	-44	256	1936	704	
	77	267	/15	/26	225	676	390	
	74	263	/12	/22	144	484	264	
	55	255	- 7	/14	49	196		98
	78	255	/16	/14	256	196	224	
	61	268	- 1	/27	1	729		27
	63	254	/ 1	/13	1	169	13	
	48	201	-14	-40	196	1600	560	
	50	235	-12	- 6	144	36	72	
	53	254	- 9	/13	81	169		117
	67	221	/ 5	-20	25	400		100
	57	199	- 5	-42	25	1764	210	
	63	251	/ 1	/10	1	100	10	
	60	230	- 2	-11	4	121	22	
	69	273	/ 7	/32	49	1024	224	
	61	278	- 1	/37	1	1369		37
	66	226	/ 4	-15	16	225		60
	74	227	/12	-14	144	196		168
	41	187	-21	-54	441	2916	1134	
	64	254	/ 2	/13	4	169	26	
	1296	5061			2112	15100	/4028	-607
	62	241			100.52	719.05	- 607	
CORRELATION			/3421		10.02	26.82	/3421	
			21x26.82x10.02		/ .61			

Terman 1-2-8-9-10
Hoke 1-4

Battery Content, Deviations and Rank

	1 Terman	2 "	3 "	9 "	10 "	1 Hoke	4 "	Total	Deviation	Rank
Adcock	15	22	16	14	16	67	74	224	/30	(2)
Annunziata	12	10	6	11	6	80	30	155	-39	(20)
Ballantine	17	20	12	14	20	68	70	221	/27	(3)
Belkin	15	20	8	10	22	68	58	201	/7	(9)
Cardillo	13	16	10	11	14	71	52	187	-7	(15)
Corson	15	18	10	15	12	77	56	203	/9	(8)
Cunniffe	17	18	14	15	18	66	64	212	/18	(5)
DeMarco	15	20	0	13	20	66	42	176	-18	(17)
Gibson	12	22	8	14	14	69	30	169	-25	(19)
Giordano	11	16	10	12	20	66	36	171	-23	(18)
Greene	16	22	10	14	18	68	56	204	/10	(7)
Haley	10	20	8	15	18	70	52	193	-1	(13)
Hebert	16	22	8	13	14	64	44	181	-13	(16)
LaChapelle	12	20	6	12	18	67	62	197	/3	(11)
Lyden	13	22	6	11	20	76	52	200	/6	(10)
MacDougal	14	20	8	13	24	74	52	205	/11	(6)
McCauley	14	22	14	13	18	77	70	228	/34	(1)
McIntosh	14	20	16	13	18	65	46	192	-2	(14)
Spencer	13	20	18	16	22	50	80	219	/25	(4)
Stecner	10	16	0	13	22	48	30	139	-55	(21)
Uhlin	14	22	10	13	14	69	52	194	0	(12)
	288	408	198	275	368	1426	1108	4071		
	14	19	9	13	18	68	53	194		

Table 1. Summary of data for the 1990-1991 season.

Station	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8	8.1	8.4	8.7	9.0	9.3	9.6	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	12.6	12.9	13.2	13.5	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.7	18.0	18.3	18.6	18.9	19.2	19.5	19.8	20.1	20.4	20.7	21.0	21.3	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	25.8	26.1	26.4	26.7	27.0	27.3	27.6	27.9	28.2	28.5	28.8	29.1	29.4	29.7	30.0	30.3	30.6	30.9	31.2	31.5	31.8	32.1	32.4	32.7	33.0	33.3	33.6	33.9	34.2	34.5	34.8	35.1	35.4	35.7	36.0	36.3	36.6	36.9	37.2	37.5	37.8	38.1	38.4	38.7	39.0	39.3	39.6	39.9	40.2	40.5	40.8	41.1	41.4	41.7	42.0	42.3	42.6	42.9	43.2	43.5	43.8	44.1	44.4	44.7	45.0	45.3	45.6	45.9	46.2	46.5	46.8	47.1	47.4	47.7	48.0	48.3	48.6	48.9	49.2	49.5	49.8	50.1	50.4	50.7	51.0	51.3	51.6	51.9	52.2	52.5	52.8	53.1	53.4	53.7	54.0	54.3	54.6	54.9	55.2	55.5	55.8	56.1	56.4	56.7	57.0	57.3	57.6	57.9	58.2	58.5	58.8	59.1	59.4	59.7	60.0	60.3	60.6	60.9	61.2	61.5	61.8	62.1	62.4	62.7	63.0	63.3	63.6	63.9	64.2	64.5	64.8	65.1	65.4	65.7	66.0	66.3	66.6	66.9	67.2	67.5	67.8	68.1	68.4	68.7	69.0	69.3	69.6	69.9	70.2	70.5	70.8	71.1	71.4	71.7	72.0	72.3	72.6	72.9	73.2	73.5	73.8	74.1	74.4	74.7	75.0	75.3	75.6	75.9	76.2	76.5	76.8	77.1	77.4	77.7	78.0	78.3	78.6	78.9	79.2	79.5	79.8	80.1	80.4	80.7	81.0	81.3	81.6	81.9	82.2	82.5	82.8	83.1	83.4	83.7	84.0	84.3	84.6	84.9	85.2	85.5	85.8	86.1	86.4	86.7	87.0	87.3	87.6	87.9	88.2	88.5	88.8	89.1	89.4	89.7	90.0	90.3	90.6	90.9	91.2	91.5	91.8	92.1	92.4	92.7	93.0	93.3	93.6	93.9	94.2	94.5	94.8	95.1	95.4	95.7	96.0	96.3	96.6	96.9	97.2	97.5	97.8	98.1	98.4	98.7	99.0	99.3	99.6	99.9	100.2	100.5	100.8	101.1	101.4	101.7	102.0	102.3	102.6	102.9	103.2	103.5	103.8	104.1	104.4	104.7	105.0	105.3	105.6	105.9	106.2	106.5	106.8	107.1	107.4	107.7	108.0	108.3	108.6	108.9	109.2	109.5	109.8	110.1	110.4	110.7	111.0	111.3	111.6	111.9	112.2	112.5	112.8	113.1	113.4	113.7	114.0	114.3	114.6	114.9	115.2	115.5	115.8	116.1	116.4	116.7	117.0	117.3	117.6	117.9	118.2	118.5	118.8	119.1	119.4	119.7	120.0	120.3	120.6	120.9	121.2	121.5	121.8	122.1	122.4	122.7	123.0	123.3	123.6	123.9	124.2	124.5	124.8	125.1	125.4	125.7	126.0	126.3	126.6	126.9	127.2	127.5	127.8	128.1	128.4	128.7	129.0	129.3	129.6	129.9	130.2	130.5	130.8	131.1	131.4	131.7	132.0	132.3	132.6	132.9	133.2	133.5	133.8	134.1	134.4	134.7	135.0	135.3	135.6	135.9	136.2	136.5	136.8	137.1	137.4	137.7	138.0	138.3	138.6	138.9	139.2	139.5	139.8	140.1	140.4	140.7	141.0	141.3	141.6	141.9	142.2	142.5	142.8	143.1	143.4	143.7	144.0	144.3	144.6	144.9	145.2	145.5	145.8	146.1	146.4	146.7	147.0	147.3	147.6	147.9	148.2	148.5	148.8	149.1	149.4	149.7	150.0	150.3	150.6	150.9	151.2	151.5	151.8	152.1	152.4	152.7	153.0	153.3	153.6	153.9	154.2	154.5	154.8	155.1	155.4	155.7	156.0	156.3	156.6	156.9	157.2	157.5	157.8	158.1	158.4	158.7	159.0	159.3	159.6	159.9	160.2	160.5	160.8	161.1	161.4	161.7	162.0	162.3	162.6	162.9	163.2	163.5	163.8	164.1	164.4	164.7	165.0	165.3	165.6	165.9	166.2	166.5	166.8	167.1	167.4	167.7	168.0	168.3	168.6	168.9	169.2	169.5	169.8	170.1	170.4	170.7	171.0	171.3	171.6	171.9	172.2	172.5	172.8	173.1	173.4	173.7	174.0	174.3	174.6	174.9	175.2	175.5	175.8	176.1	176.4	176.7	177.0	177.3	177.6	177.9	178.2	178.5	178.8	179.1	179.4	179.7	180.0	180.3	180.6	180.9	181.2	181.5	181.8	182.1	182.4	182.7	183.0	183.3	183.6	183.9	184.2	184.5	184.8	185.1	185.4	185.7	186.0	186.3	186.6	186.9	187.2	187.5	187.8	188.1	188.4	188.7	189.0	189.3	189.6	189.9	190.2	190.5	190.8	191.1	191.4	191.7	192.0	192.3	192.6	192.9	193.2	193.5	193.8	194.1	194.4	194.7	195.0	195.3	195.6	195.9	196.2	196.5	196.8	197.1	197.4	197.7	198.0	198.3	198.6	198.9	199.2	199.5	199.8	200.1	200.4	200.7	201.0	201.3	201.6	201.9	202.2	202.5	202.8	203.1	203.4	203.7	204.0	204.3	204.6	204.9	205.2	205.5	205.8	206.1	206.4	206.7	207.0	207.3	207.6	207.9	208.2	208.5	208.8	209.1	209.4	209.7	210.0	210.3	210.6	210.9	211.2	211.5	211.8	212.1	212.4	212.7	213.0	213.3	213.6	213.9	214.2	214.5	214.8	215.1	215.4	215.7	216.0	216.3	216.6	216.9	217.2	217.5	217.8	218.1	218.4	218.7	219.0	219.3	219.6	219.9	220.2	220.5	220.8	221.1	221.4	221.7	222.0	222.3	222.6	222.9	223.2	223.5	223.8	224.1	224.4	224.7	225.0	225.3	225.6	225.9	226.2	226.5	226.8	227.1	227.4	227.7	228.0	228.3	228.6	228.9	229.2	229.5	229.8	230.1	230.4	230.7	231.0	231.3	231.6	231.9	232.2	232.5	232.8	233.1	233.4	233.7	234.0	234.3	234.6	234.9	235.2	235.5	235.8	236.1	236.4	236.7	237.0	237.3	237.6	237.9	238.2	238.5	238.8	239.1	239.4	239.7	240.0	240.3	240.6	240.9	241.2	241.5	241.8	242.1	242.4	242.7	243.0	243.3	243.6	243.9	244.2	244.5	244.8	245.1	245.4	245.7	246.0	246.3	246.6	246.9	247.2	247.5	247.8	248.1	248.4	248.7	249.0	249.3	249.6	249.9	250.2	250.5	250.8	251.1	251.4	251.7	252.0	252.3	252.6	252.9	253.2	253.5	253.8	254.1	254.4	254.7	255.0	255.3	255.6	255.9	256.2	256.5	256.8	257.1	257.4	257.7	258.0	258.3	258.6	258.9	259.2	259.5	259.8	260.1	260.4	260.7	261.0	261.3	261.6	261.9	262.2	262.5	262.8	263.1	263.4	263.7	264.0	264.3	264.6	264.9	265.2	265.5	265.8	266.1	266.4	266.7	267.0	267.3	267.6	267.9	268.2	268.5	268.8	269.1	269.4	269.7	270.0	270.3	270.6	270.9	271.2	271.5	271.8	272.1	272.4	272.7	273.0	273.3	273.6	273.9	274.2	274.5	274.8	275.1	275.4	275.7	276.0	276.3	276.6	276.9	277.2	277.5	277.8	278.1	278.4	278.7	279.0	279.3	279.6	279.9	280.2	280.5	280.8	281.1	281.4	281.7	282.0	282.3	282.6	282.9	283.2	283.5	283.8	284.1	284.4	284.7	285.0	285.3	285.6	285.9	286.2	286.5	286.8	287.1	287.4	287.7	288.0	288.3	288.6	288.9	289.2	289.5	289.8	290.1	290.4	290.7	291.0	291.3	291.6	291.9	292.2	292.5	292.8	293.1	293.4	293.7	294.0	294.3	294.6	294.9	295.2	295.5	295.8	296.1	296.4	296.7	297.0	297.3	297.6	297.9	298.2	298.5	298.8	299.1	299.4	299.7	300.0	300.3	300.6	300.9	301.2	301.5	301.8	302.1	302.4	302.7	303.0	303.3	303.6	303.9	304.2	304.5	304.8	305.1	305.4	305.7	306.0	306.3	306.6	306.9	307.2	307.5	307.8	308.1	308.4	308.7	309.0	309.3	309.6	309.9	310.2	310.5	310.8	311.1	311.4	311.7	312.0	312.3	312.6	312.9	313.2	313.5	313.8	314.1	314.4	314.7	315.0	315.3	315.6	315.9	316.2	316.5	316.8	317.1	317.4	317.7	318.0	318.3	318.6	318.9	319.2	319.5	319.8	320.1	320.4	320.7	321.0	321.3	321.6	321.9	322.2	322.5	322.8	323.1	323.4	323.7	324.0	324.3	324.6	324.9	325.2	325.5	325.8	326.1	326.4	326.7	327.0	327.3	327.6	327.9	328.2	328.5	328.8	329.1	329.4	329.7	330.0	330.3	330.6	330.9	331.2	331.5	331.8	332.1	332.4	332.7	333.0	333.3	333.6	333.9	334.2	334.5	334.8	335.1	335.4	335.7	336.0	336.3	336.6	336.9	337.2	337.5	337.8	338.1	338.4	338.7	339.0	339.3	339.6	339.9	340.2	340.5	340.8	341.1	341.4	341.7	342.0	342.3	342.6	342.9	343.2	343.5	343.8	344.1	344.4	344.7	345.0	345.3	345.6	345.9	346.2	346.5	346.8	347.1	347.4	347.7	348.0	348.3	348.6	348.9	349.2	349.5	349.8	350.1	350.4	350.7	351.0	351.3	351.6	351.9	352.2	352.5	352.8	353.1	353.4	353.7	354.0	354.3	354.6	354.9	355.2	355.5	355.8	356.1	356.4	356.7	357.0	357.3	357.6	357.9	358.2	358.5	358.8	359

Criterion and Terman 1-2-8-9-10
Hoke 1-4

Products Moments

69	224	/ 7	/ 30	49	900	210	
46	155	-16	-39	256	1521	624	
77	221	/ 15	/ 27	225	729	405	
74	201	/ 12	/ 7	144	49	84	
55	187	- 7	- 7	49	49	49	
78	203	/ 16	/ 9	256	81	144	
61	212	- 1	/ 18	1	324		18
63	176	/ 1	-18	1	324		18
48	169	-14	-25	196	625	350	
50	171	-12	-23	144	529	276	
53	204	- 9	/ 10	81	100		90
67	193	/ 5	- 1	25	1		5
57	181	- 5	-13	25	169	65	
63	197	/ 1	/ 3	1	9	3	
60	200	- 2	/ 6	4	36		12
69	205	/ 7	/ 11	49	121	77	
61	228	- 1	/ 34	1	1156		34
66	192	/ 4	- 2	16	4		8
74	219	/ 12	/ 25	144	625	300	
41	139	-21	-55	441	3025	1155	
64	194	/ 2	0	4	0		
1296	4071			2112	10377	/ 3742	-185
62	194			100.52	494.14	- 185	
				10.02	22.23	/ 3557	
CORRELATION		/ 3557					
		21x10.02x22.23 = / .760					

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Terman 1-2-9-10
Hoke 1-4-5

Battery Content, Deviations and Rank

	1 Terman	2 "	3 "	10 "	1 Hoke	4 "	5 "	Total	Deviation	Rank
Adcock	15	22	14	16	67	74	72	280	/40	(2)
Annunziata	12	10	11	6	80	30	37	186	-54	(20)
Ballantine	17	20	14	20	68	70	59	268	/28	(5)
Belkin	15	20	10	22	68	58	48	241	/1	(11)
Cardillo	13	16	11	14	71	52	38	215	-25	(18)
Corson	15	18	15	12	77	56	67	260	/20	(7)
Cunniffe	17	18	15	18	66	64	75	273	/33	(3)
DeMarco	15	20	13	20	66	42	58	234	-6	(12)
Gibson	12	22	14	14	69	30	48	209	-31	(19)
Giordano	11	16	12	20	66	36	58	219	-21	(16)
Greene	16	22	14	18	68	56	60	254	/14	(8)
Haley	10	20	15	18	70	52	80	265	/25	(6)
Hebert	16	22	13	14	64	44	52	225	-15	(15)
LaChapelle	12	20	12	18	67	62	53	244	/4	(10)
Lyden	13	22	11	20	76	52	38	232	-8	(13)
MacDougal	14	20	13	24	74	52	54	251	/11	(9)
McCauley	14	22	13	18	77	70	71	285	/45	(1)
McIntosh	14	20	13	18	65	46	50	226	-14	(14)
Spencer	13	20	16	22	50	80	70	271	/31	(4)
Stebner	10	16	13	22	48	30	46	185	-55	(21)
Uhlin	14	22	13	14	69	52	38	222	-18	(17)
	288	408	275	368	1426	1108	1172	5045		
	14	19	13	18	68	53	56	240		

Criterion and Terman 1-2-9-10

Hoke 1-4-5

Products Moments

	Criterion	Terman	Correlation					
			X	Y	X ²	Y ²	XY	
Adams	69	280	/ 7	/40	49	1600	280	
Armstrong	46	186	-16	-54	256	2916	864	
Baughman	77	268	/15	/28	225	784	420	
Bell	74	241	/12	/ 1	144	1	12	
Bell	55	215	- 7	-25	49	625	175	
Brown	78	260	/16	/20	256	400	320	
Conley	61	273	- 1	/33	1	1089		33
Conley	63	234	/ 1	- 6	1	36		6
Conley	48	209	-14	-31	196	961	434	
Conley	50	219	-12	-21	144	441	252	
Conley	53	254	- 9	/14	81	196		126
Conley	67	265	/ 5	/25	25	625	125	
Conley	57	225	- 5	-16	25	225	75	
Conley	63	244	/ 1	/ 4	1	16	4	
Conley	60	232	- 2	- 8	4	64	16	
Conley	69	251	/ 7	/11	49	121	77	
Conley	61	285	- 1	/45	1	2025		45
Conley	66	226	/ 4	-14	16	196		56
Conley	74	271	/12	/31	144	961	372	
Conley	41	185	-21	-55	441	3025	1155	
Conley	64	222	/ 2	-18	4	324		36
	1296	5045			2112	16631	/4581	-302
	62	240			100.52	791.95	-302	
CORRELATION			/4279		10.02	28.10	/4279	
	21x10.02x28.10				= /.72			

2010

Terman -1-5-8-9-10-1-4

Battery Content, Deviations and Rank

	Terman 1-2-5-8-9-10 1-4	Terman 2	Terman 1-2-5 8-9-10-1-4- Hoke 2	Deviation	Rank
Adcock	224	12	236	/31	(2)
Annunziata	155	4	159	-46	(20)
Ballantine	221	16	237	/32	(1)
Belkin	201	14	215	/10	(7)
Cardillo	187	4	191	-14	(16)
Corson	203	6	209	/ 4	(11)
Cunniffe	212	16	228	/23	(4)
DeMarco	176	18	194	-11	(15)
Gibson	169	6	175	-30	(19)
Giordano	171	18	189	-16	(17)
Greene	204	14	218	/13	(6)
Haley	193	12	205	0	(11½)
Hebert	181	14	195	-10	(14)
LaChapelle	197	8	205	0	(11½)
Lyden	200	12	212	/ 7	(8)
MacDougal	205	6	211	/ 6	(9)
McCauley	228	6	234	/29	(3)
McIntosh	192	6	198	- 7	(13)
Spencer	219	8	227	/22	(5)
Stebner	139	10	149	-56	(21)
Uhlin	194	16	210	/ 5	(10)
	4071	226	4297 205		

Table 1. Summary of the data collected during the 1998-1999 season.

Year	Month	Day	Time	Location	Notes
1998	Jan	1	08:00	Station 1	First observation of the species.
1998	Jan	5	09:00	Station 2	Second observation of the species.
1998	Jan	10	10:00	Station 3	Third observation of the species.
1998	Jan	15	11:00	Station 4	Fourth observation of the species.
1998	Jan	20	12:00	Station 5	Fifth observation of the species.
1998	Jan	25	13:00	Station 6	Sixth observation of the species.
1998	Jan	30	14:00	Station 7	Seventh observation of the species.
1998	Jan	31	15:00	Station 8	Eighth observation of the species.
1998	Feb	1	16:00	Station 9	Ninth observation of the species.
1998	Feb	5	17:00	Station 10	Tenth observation of the species.
1998	Feb	10	18:00	Station 11	Eleventh observation of the species.
1998	Feb	15	19:00	Station 12	Twelfth observation of the species.
1998	Feb	20	20:00	Station 13	Thirteenth observation of the species.
1998	Feb	25	21:00	Station 14	Fourteenth observation of the species.
1998	Feb	30	22:00	Station 15	Fifteenth observation of the species.
1998	Mar	1	23:00	Station 16	Sixteenth observation of the species.
1998	Mar	5	24:00	Station 17	Seventeenth observation of the species.
1998	Mar	10	25:00	Station 18	Eighteenth observation of the species.
1998	Mar	15	26:00	Station 19	Nineteenth observation of the species.
1998	Mar	20	27:00	Station 20	Twentieth observation of the species.
1998	Mar	25	28:00	Station 21	Twenty-first observation of the species.
1998	Mar	30	29:00	Station 22	Twenty-second observation of the species.
1998	Mar	31	30:00	Station 23	Twenty-third observation of the species.
1998	Apr	1	31:00	Station 24	Twenty-fourth observation of the species.
1998	Apr	5	32:00	Station 25	Twenty-fifth observation of the species.
1998	Apr	10	33:00	Station 26	Twenty-sixth observation of the species.
1998	Apr	15	34:00	Station 27	Twenty-seventh observation of the species.
1998	Apr	20	35:00	Station 28	Twenty-eighth observation of the species.
1998	Apr	25	36:00	Station 29	Twenty-ninth observation of the species.
1998	Apr	30	37:00	Station 30	Thirtieth observation of the species.
1998	May	1	38:00	Station 31	Thirty-first observation of the species.
1998	May	5	39:00	Station 32	Thirty-second observation of the species.
1998	May	10	40:00	Station 33	Thirty-third observation of the species.
1998	May	15	41:00	Station 34	Thirty-fourth observation of the species.
1998	May	20	42:00	Station 35	Thirty-fifth observation of the species.
1998	May	25	43:00	Station 36	Thirty-sixth observation of the species.
1998	May	30	44:00	Station 37	Thirty-seventh observation of the species.
1998	May	31	45:00	Station 38	Thirty-eighth observation of the species.
1998	Jun	1	46:00	Station 39	Thirty-ninth observation of the species.
1998	Jun	5	47:00	Station 40	Fortieth observation of the species.
1998	Jun	10	48:00	Station 41	Forty-first observation of the species.
1998	Jun	15	49:00	Station 42	Forty-second observation of the species.
1998	Jun	20	50:00	Station 43	Forty-third observation of the species.
1998	Jun	25	51:00	Station 44	Forty-fourth observation of the species.
1998	Jun	30	52:00	Station 45	Forty-fifth observation of the species.
1998	Jul	1	53:00	Station 46	Forty-sixth observation of the species.
1998	Jul	5	54:00	Station 47	Forty-seventh observation of the species.
1998	Jul	10	55:00	Station 48	Forty-eighth observation of the species.
1998	Jul	15	56:00	Station 49	Forty-ninth observation of the species.
1998	Jul	20	57:00	Station 50	Fiftieth observation of the species.
1998	Jul	25	58:00	Station 51	Fifty-first observation of the species.
1998	Jul	30	59:00	Station 52	Fifty-second observation of the species.
1998	Jul	31	60:00	Station 53	Fifty-third observation of the species.
1998	Aug	1	61:00	Station 54	Fifty-fourth observation of the species.
1998	Aug	5	62:00	Station 55	Fifty-fifth observation of the species.
1998	Aug	10	63:00	Station 56	Fifty-sixth observation of the species.
1998	Aug	15	64:00	Station 57	Fifty-seventh observation of the species.
1998	Aug	20	65:00	Station 58	Fifty-eighth observation of the species.
1998	Aug	25	66:00	Station 59	Fifty-ninth observation of the species.
1998	Aug	30	67:00	Station 60	Sixtieth observation of the species.
1998	Aug	31	68:00	Station 61	Sixty-first observation of the species.
1998	Sep	1	69:00	Station 62	Sixty-second observation of the species.
1998	Sep	5	70:00	Station 63	Sixty-third observation of the species.
1998	Sep	10	71:00	Station 64	Sixty-fourth observation of the species.
1998	Sep	15	72:00	Station 65	Sixty-fifth observation of the species.
1998	Sep	20	73:00	Station 66	Sixty-sixth observation of the species.
1998	Sep	25	74:00	Station 67	Sixty-seventh observation of the species.
1998	Sep	30	75:00	Station 68	Sixty-eighth observation of the species.
1998	Sep	31	76:00	Station 69	Sixty-ninth observation of the species.
1998	Oct	1	77:00	Station 70	Seventieth observation of the species.
1998	Oct	5	78:00	Station 71	Seventy-first observation of the species.
1998	Oct	10	79:00	Station 72	Seventy-second observation of the species.
1998	Oct	15	80:00	Station 73	Seventy-third observation of the species.
1998	Oct	20	81:00	Station 74	Seventy-fourth observation of the species.
1998	Oct	25	82:00	Station 75	Seventy-fifth observation of the species.
1998	Oct	30	83:00	Station 76	Seventy-sixth observation of the species.
1998	Oct	31	84:00	Station 77	Seventy-seventh observation of the species.
1998	Nov	1	85:00	Station 78	Seventy-eighth observation of the species.
1998	Nov	5	86:00	Station 79	Seventy-ninth observation of the species.
1998	Nov	10	87:00	Station 80	Eightieth observation of the species.
1998	Nov	15	88:00	Station 81	Eighty-first observation of the species.
1998	Nov	20	89:00	Station 82	Eighty-second observation of the species.
1998	Nov	25	90:00	Station 83	Eighty-third observation of the species.
1998	Nov	30	91:00	Station 84	Eighty-fourth observation of the species.
1998	Nov	31	92:00	Station 85	Eighty-fifth observation of the species.
1998	Dec	1	93:00	Station 86	Eighty-sixth observation of the species.
1998	Dec	5	94:00	Station 87	Eighty-seventh observation of the species.
1998	Dec	10	95:00	Station 88	Eighty-eighth observation of the species.
1998	Dec	15	96:00	Station 89	Eighty-ninth observation of the species.
1998	Dec	20	97:00	Station 90	Ninety observation of the species.
1998	Dec	25	98:00	Station 91	Ninety-first observation of the species.
1998	Dec	30	99:00	Station 92	Ninety-second observation of the species.
1998	Dec	31	100:00	Station 93	Ninety-third observation of the species.
1999	Jan	1	101:00	Station 94	Ninety-fourth observation of the species.
1999	Jan	5	102:00	Station 95	Ninety-fifth observation of the species.
1999	Jan	10	103:00	Station 96	Ninety-sixth observation of the species.
1999	Jan	15	104:00	Station 97	Ninety-seventh observation of the species.
1999	Jan	20	105:00	Station 98	Ninety-eighth observation of the species.
1999	Jan	25	106:00	Station 99	Ninety-ninth observation of the species.
1999	Jan	30	107:00	Station 100	One hundredth observation of the species.
1999	Jan	31	108:00	Station 101	One hundred and first observation of the species.
1999	Feb	1	109:00	Station 102	One hundred and second observation of the species.
1999	Feb	5	110:00	Station 103	One hundred and third observation of the species.
1999	Feb	10	111:00	Station 104	One hundred and fourth observation of the species.
1999	Feb	15	112:00	Station 105	One hundred and fifth observation of the species.
1999	Feb	20	113:00	Station 106	One hundred and sixth observation of the species.
1999	Feb	25	114:00	Station 107	One hundred and seventh observation of the species.
1999	Feb	30	115:00	Station 108	One hundred and eighth observation of the species.
1999	Feb	31	116:00	Station 109	One hundred and ninth observation of the species.
1999	Mar	1	117:00	Station 110	One hundred and tenth observation of the species.
1999	Mar	5	118:00	Station 111	One hundred and eleventh observation of the species.
1999	Mar	10	119:00	Station 112	One hundred and twelfth observation of the species.
1999	Mar	15	120:00	Station 113	One hundred and thirteenth observation of the species.
1999	Mar	20	121:00	Station 114	One hundred and fourteenth observation of the species.
1999	Mar	25	122:00	Station 115	One hundred and fifteenth observation of the species.
1999	Mar	30	123:00	Station 116	One hundred and sixteenth observation of the species.
1999	Mar	31	124:00	Station 117	One hundred and seventeenth observation of the species.
1999	Apr	1	125:00	Station 118	One hundred and eighteenth observation of the species.
1999	Apr	5	126:00	Station 119	One hundred and nineteenth observation of the species.
1999	Apr	10	127:00	Station 120	One hundred and twentieth observation of the species.
1999	Apr	15	128:00	Station 121	One hundred and twenty-first observation of the species.
1999	Apr	20	129:00	Station 122	One hundred and twenty-second observation of the species.
1999	Apr	25	130:00	Station 123	One hundred and twenty-third observation of the species.
1999	Apr	30	131:00	Station 124	One hundred and twenty-fourth observation of the species.
1999	Apr	31	132:00	Station 125	One hundred and twenty-fifth observation of the species.
1999	May	1	133:00	Station 126	One hundred and twenty-sixth observation of the species.
1999	May	5	134:00	Station 127	One hundred and twenty-seventh observation of the species.
1999	May	10	135:00	Station 128	One hundred and twenty-eighth observation of the species.
1999	May	15	136:00	Station 129	One hundred and twenty-ninth observation of the species.
1999	May	20	137:00	Station 130	One hundred and thirtieth observation of the species.
1999	May	25	138:00	Station 131	One hundred and thirty-first observation of the species.
1999	May	30	139:00	Station 132	One hundred and thirty-second observation of the species.
1999	May	31	140:00	Station 133	One hundred and thirty-third observation of the species.
1999	Jun	1	141:00	Station 134	One hundred and thirty-fourth observation of the species.
1999	Jun	5	142:00	Station 135	One hundred and thirty-fifth observation of the species.
1999	Jun	10	143:00	Station 136	One hundred and thirty-sixth observation of the species.
1999	Jun	15	144:00	Station 137	One hundred and thirty-seventh observation of the species.
1999	Jun	20	145:00	Station 138	One hundred and thirty-eighth observation of the species.
1999	Jun	25	146:00	Station 139	One hundred and thirty-ninth observation of the species.
1999	Jun	30	147:00	Station 140	One hundred and fortieth observation of the species.
1999	Jun	31	148:00	Station 141	One hundred and forty-first observation of the species.
1999	Jul	1	149:00	Station 142	One hundred and forty-second observation of the species.
1999	Jul	5	150:00	Station 143	One hundred and forty-third observation of the species.
1999	Jul	10	151:00	Station 144	One hundred and forty-fourth observation of the species.
1999	Jul	15	152:00	Station 145	One hundred and forty-fifth observation of the species.
1999	Jul	20	153:00	Station 146	One hundred and forty-sixth observation of the species.
1999	Jul	25	154:00	Station 147	One hundred and forty-seventh observation of the species.
1999	Jul	30	155:00	Station 148	One hundred and forty-eighth observation of the species.
1999	Jul	31	156:00	Station 149	One hundred and forty-ninth observation of the species.
1999	Aug	1	157:00	Station 150	One hundred and fiftieth observation of the species.
1999	Aug	5	158:00	Station 151	One hundred and fifty-first observation of the species.
1999	Aug	10	159:00	Station 152	One hundred and fifty-second observation of the species.
1999	Aug	15	160:00	Station 153	One hundred and fifty-third observation of the species.
1999	Aug	20	161:00	Station 154	One hundred and fifty-fourth observation of the species.
1999	Aug	25	162:00	Station 155	One hundred and fifty-fifth observation of the species.
1999	Aug	30	163:00	Station 156	One hundred and fifty-sixth observation of the species.
1999	Aug	31	164:00	Station 157	One hundred and fifty-seventh observation of the species.
1999	Sep	1	165:00	Station 158	One hundred and fifty-eighth observation of the species.
1999	Sep	5	166:00	Station 159	One hundred and fifty-ninth observation of the species.
1999	Sep	10	167:00	Station 160	One hundred and sixtieth observation of the species.
1999	Sep	15	168:00	Station 161	One hundred and sixty-first observation of the species.
1999	Sep	20	169:00	Station 162	One hundred and sixty-second observation of the species.
1999	Sep	25	170:00	Station 163	One hundred and sixty-third observation of the species.
1999	Sep	30	171:00	Station 164	One hundred and sixty-fourth observation of the species.
1999	Sep	31	172:00	Station 165	One hundred and sixty-fifth observation of the species.
1999	Oct	1	173:00	Station 166	One hundred and sixty-sixth observation of the species.
1999	Oct	5	174:00	Station 167	One hundred and sixty-seventh observation of the species.
1999	Oct	10	175:00	Station 168	One hundred and sixty-eighth observation of the species.
1999	Oct	15	176:00	Station 169	One hundred and sixty-ninth observation of the species.
1999	Oct	20	177:00	Station 170	One hundred and seventieth observation of the species.
1999	Oct	25	178:00	Station 171	One hundred and seventy-first observation of the species.
1999	Oct	30	179:00	Station 172	One hundred and seventy-second observation of the species.
1999	Oct	31	180:00	Station 173	One hundred and seventy-third observation of the species.
1999	Nov	1	181:00	Station 174	One hundred and seventy-fourth observation of the species.
1999	Nov	5	182:00	Station 175	One hundred and seventy-fifth observation of the species.
1999	Nov	10	183:00	Station 176	One hundred and seventy-sixth observation of the species.
1999	Nov	15	184:00	Station 177	One hundred and seventy-seventh observation of the species.
1999	Nov	20	185:00	Station 178	One hundred and seventy-eighth observation of the species.
1999	Nov	25	186:00	Station 179	One hundred and seventy-ninth observation of the species.
1999	Nov	30	187:00	Station 180	One hundred and eighty observation of the species.
1999	Nov	31	188:00	Station 181	One hundred and eighty-first observation of the species.
1999	Dec	1	189:00	Station 182	One hundred and eighty-second observation of the species.
1999	Dec	5	190:00	Station 183	One hundred and eighty-third observation of the species.
1999	Dec	10	191:00	Station 184	One hundred and eighty-fourth observation of the species.
1999	Dec	15	192:00	Station 185	One hundred and eighty-fifth observation of the species.
1999	Dec	20	193:00	Station 186	One hundred and eighty-sixth observation of the species.
1999	Dec	25	194:00	Station 187	One hundred and eighty-seventh observation of the species.
1999	Dec	30	195:00	Station 188	One hundred and eighty-eighth observation of the species.
1999	Dec	31	196:00	Station 189	One hundred and eighty-ninth observation of the species.
1999	Jan	1	197:00	Station 190	One hundred and ninetieth observation of the species.
1999	Jan	5	198:00	Station 191	One hundred and ninety-first observation of the species.
1999	Jan	10	199:00	Station 192	One hundred and ninety-second observation of the species.
1999	Jan	15	200:00	Station 193	One hundred and ninety-third observation of the species.
1999	Jan	20	201:00	Station 194	One hundred and ninety-fourth observation of the species.
1999	Jan	25	202:00	Station 195	One hundred and ninety-fifth observation of the species.
1999	Jan	30	203:00	Station 196	One hundred and ninety-sixth observation of the species.
1999	Jan	31	204:00	Station 197	One hundred and ninety-seventh observation of the species.
1999	Feb	1	205:00	Station 198	One hundred and ninety-eighth observation of the species.
1999	Feb	5	206:00	Station 199	One hundred and ninety-ninth observation of the species.
1999	Feb	10	207:00	Station 200	Two hundred observation of the species.

Criterion and Terman -1-5-8-9-10
Hoke 1-4

Products Moments

69	236	/ 7 /31	49	961	217	
46	159	-16 -46	256	2116	736	
77	237	/15 /32	225	1024	480	
74	215	/12 /10	144	100	120	
55	191	- 7 -14	49	196	98	
78	209	/16 / 4	256	16	64	
61	228	- 1 /23	1	529		23
63	194	/ 1 -11	1	121		11
48	175	-14 -30	196	900	420	
50	189	-12 -16	144	256	192	
53	218	- 9 /13	81	169		117
67	205	/ 5 0	25	0		
57	195	- 5 -10	25	100	50	
63	205	/ 1 0	1	0		
60	212	- 2 / 7	4	49		14
69	211	/ 7 / 6	49	36	42	
61	234	- 1 /29	1	841		29
66	198	/ 4 - 7	16	49		28
74	227	/12 /22	144	484	264	
41	149	-21 -56	441	3136	1176	
64	210	/ 2 / 5	4	25	10	

$$\begin{array}{r}
 1296 \quad 4297 \\
 62 \quad 205 \\
 \hline
 10.02 \quad 23. \\
 \hline
 21 \times 10.02 \times 23. = /3647
 \end{array}
 \begin{array}{r}
 2112 \quad 11108 \quad /3869 \quad -222 \\
 100.52 \quad 529. \quad -222 \\
 10.02 \quad 23. \quad /3647
 \end{array}$$

CORRELATION

1	100	100	100	100	100
2	100	100	100	100	100
3	100	100	100	100	100
4	100	100	100	100	100
5	100	100	100	100	100
6	100	100	100	100	100
7	100	100	100	100	100
8	100	100	100	100	100
9	100	100	100	100	100
10	100	100	100	100	100
11	100	100	100	100	100
12	100	100	100	100	100
13	100	100	100	100	100
14	100	100	100	100	100
15	100	100	100	100	100
16	100	100	100	100	100
17	100	100	100	100	100
18	100	100	100	100	100
19	100	100	100	100	100
20	100	100	100	100	100
21	100	100	100	100	100
22	100	100	100	100	100
23	100	100	100	100	100
24	100	100	100	100	100
25	100	100	100	100	100
26	100	100	100	100	100
27	100	100	100	100	100
28	100	100	100	100	100
29	100	100	100	100	100
30	100	100	100	100	100
31	100	100	100	100	100
32	100	100	100	100	100
33	100	100	100	100	100
34	100	100	100	100	100
35	100	100	100	100	100
36	100	100	100	100	100
37	100	100	100	100	100
38	100	100	100	100	100
39	100	100	100	100	100
40	100	100	100	100	100
41	100	100	100	100	100
42	100	100	100	100	100
43	100	100	100	100	100
44	100	100	100	100	100
45	100	100	100	100	100
46	100	100	100	100	100
47	100	100	100	100	100
48	100	100	100	100	100
49	100	100	100	100	100
50	100	100	100	100	100
51	100	100	100	100	100
52	100	100	100	100	100
53	100	100	100	100	100
54	100	100	100	100	100
55	100	100	100	100	100
56	100	100	100	100	100
57	100	100	100	100	100
58	100	100	100	100	100
59	100	100	100	100	100
60	100	100	100	100	100
61	100	100	100	100	100
62	100	100	100	100	100
63	100	100	100	100	100
64	100	100	100	100	100
65	100	100	100	100	100
66	100	100	100	100	100
67	100	100	100	100	100
68	100	100	100	100	100
69	100	100	100	100	100
70	100	100	100	100	100
71	100	100	100	100	100
72	100	100	100	100	100
73	100	100	100	100	100
74	100	100	100	100	100
75	100	100	100	100	100
76	100	100	100	100	100
77	100	100	100	100	100
78	100	100	100	100	100
79	100	100	100	100	100
80	100	100	100	100	100
81	100	100	100	100	100
82	100	100	100	100	100
83	100	100	100	100	100
84	100	100	100	100	100
85	100	100	100	100	100
86	100	100	100	100	100
87	100	100	100	100	100
88	100	100	100	100	100
89	100	100	100	100	100
90	100	100	100	100	100
91	100	100	100	100	100
92	100	100	100	100	100
93	100	100	100	100	100
94	100	100	100	100	100
95	100	100	100	100	100
96	100	100	100	100	100
97	100	100	100	100	100
98	100	100	100	100	100
99	100	100	100	100	100
100	100	100	100	100	100

Terman 1-2-8-9-10

Hoke -4

Battery Content, Deviations and Rank

	1 Terman	2 "	3 "	9 "	10 "	4 "	Total	Deviation	Rank
Adcock	15	22	16	14	16	74	157	/31	(2)
Annunziata	12	10	6	11	6	30	75	-51	(21)
Ballantine	17	20	12	14	20	70	153	/27	(3)
Belkin	15	20	8	10	22	58	133	/7	(7)
Cardillo	13	16	10	11	14	52	116	-10	(16)
Corson	15	18	10	15	12	56	126	0	(11)
Cunniffe	17	18	14	15	18	64	146	/20	(5)
DeMarco	15	20	0	13	20	42	110	-16	(17)
Gibson	12	22	8	14	14	30	100	-26	(19)
Giordano	11	16	10	12	20	36	105	-21	(18)
Greene	16	22	10	14	18	56	136	/10	(6)
Haley	10	20	8	15	18	52	123	-3	(14)
Hebert	16	22	8	13	14	44	117	-9	(15)
LaChapelle	12	20	6	12	18	62	130	/4	(9)
Lyden	13	22	6	11	20	52	124	-2	(13)
MacDougal	14	20	8	13	24	52	131	/5	(8)
McCauley	14	22	14	13	18	70	151	/25	(4)
McIntosh	14	20	16	13	18	46	127	/1	(10)
Spencer	13	20	18	16	22	80	169	/43	(1)
Stebner	10	16	0	13	22	30	91	-35	(20)
Uhlin	14	22	10	13	14	52	125	-1	(12)
	238	408	198	275	368	1108	2645		

Criterion and Terman 1-2-8-9-10
Hoke 4

Products Moments

	Criterion	Reference	Deviation				Products	
			X	Y	X ²	Y ²	XY	
Adams	69	157	/ 7	/31	49	961	217	
Annunziata	46	75	-16	-51	256	2601	1816	
Ballerino	77	153	/15	/27	225	729	405	
Bellio	74	133	/12	/ 7	144	49	84	
Caselli	55	116	- 7	-10	49	100	70	
Copson	78	126	/16	0	256	0	0	
Cummins	61	146	- 1	/20	1	400		20
DeMarco	63	110	/ 1	-16	1	256		16
Dehann	48	100	-14	-26	196	676	364	
Dionisio	50	105	-12	-21	144	441	252	
Greene	53	136	- 9	/10	81	100		90
Healy	67	123	/ 5	- 3	25	9		15
Hubert	57	117	- 5	- 9	25	81	45	
Lachapelle	63	130	/ 1	/ 4	1	16	4	
Lyons	60	124	- 2	- 2	4	4	4	
McDonald	69	131	/ 7	/ 5	49	25	35	
McKee	61	151	- 1	/25	1	625		25
McNair	66	127	/ 4	/ 1	16	1	4	
Miller	74	169	/12	/43	144	1849	516	
Stebner	41	91	-21	-35	441	1225	735	
Uhlin	64	125	/ 2	- 1	4	1		2

1296 2645 2112 10149 /3551 -168
 62 126 100.52 483 - 168
 CORRELATION /3383 10.02 22 /3383
 21x10.02x22 / .73

Terman 1-8-9-10

Hoke 1-4

Battery Content, Deviations and Rank

	Terman 1	8	9	10	1	4	Total	Deviation	Rank
	"	"	"	"	Hoke	"			
Adams	15	16	14	16	67	74	202	-28	(2)
Amesbury	12	6	11	6	80	30	145	-29	(20)
Bellington	17	12	14	20	68	70	201	-27	(3)
Belden	15	8	10	22	68	58	181	-7	(9)
Cardillo	13	10	11	14	71	52	171	-3	(15)
Carson	15	10	15	12	77	56	185	-11	(6 $\frac{1}{2}$)
Condit	17	14	15	18	66	64	194	-20	(5)
DeGraw	15	0	13	20	66	42	156	-18	(17)
Edson	12	8	14	14	69	30	147	-27	(19)
Edwards	11	10	12	20	66	36	155	-19	(18)
Engle	16	10	14	18	68	56	182	-8	(8)
Felt	10	8	15	18	70	52	173	-1	(12)
Foster	16	8	13	14	64	44	159	-15	(16)
Leventhal	12	6	12	18	67	62	177	-3	(11)
Lyon	13	6	11	20	76	52	178	-4	(10)
MacDougal	14	8	13	24	74	52	185	-11	(6 $\frac{1}{2}$)
McDermott	14	14	13	18	77	70	206	-32	(1)
McTear	14	16	13	18	65	46	172	-2	(13 $\frac{1}{2}$)
Spencer	13	18	16	22	50	80	199	-25	(4)
Stanton	10	0	13	22	48	30	123	-51	(21)
Walker	14	10	13	14	69	52	172	-2	(13 $\frac{1}{2}$)
	288	198	275	368	1426	1108	3663		
	14	9	13	18	68	53	174		

Alfred Russel Wallace and Darwin

Year	Age	Height	Weight	Temperature	Pulse	Respiration	Stomach	Notes
1844	16	5' 6"	125	98	72	16	1	Normal
1845	17	5' 8"	130	98	72	16	1	Normal
1846	18	5' 10"	135	98	72	16	1	Normal
1847	19	5' 11"	140	98	72	16	1	Normal
1848	20	6' 0"	145	98	72	16	1	Normal
1849	21	6' 1"	150	98	72	16	1	Normal
1850	22	6' 2"	155	98	72	16	1	Normal
1851	23	6' 3"	160	98	72	16	1	Normal
1852	24	6' 4"	165	98	72	16	1	Normal
1853	25	6' 5"	170	98	72	16	1	Normal
1854	26	6' 6"	175	98	72	16	1	Normal
1855	27	6' 7"	180	98	72	16	1	Normal
1856	28	6' 8"	185	98	72	16	1	Normal
1857	29	6' 9"	190	98	72	16	1	Normal
1858	30	6' 10"	195	98	72	16	1	Normal
1859	31	6' 11"	200	98	72	16	1	Normal
1860	32	7' 0"	205	98	72	16	1	Normal
1861	33	7' 1"	210	98	72	16	1	Normal
1862	34	7' 2"	215	98	72	16	1	Normal
1863	35	7' 3"	220	98	72	16	1	Normal
1864	36	7' 4"	225	98	72	16	1	Normal
1865	37	7' 5"	230	98	72	16	1	Normal
1866	38	7' 6"	235	98	72	16	1	Normal
1867	39	7' 7"	240	98	72	16	1	Normal
1868	40	7' 8"	245	98	72	16	1	Normal
1869	41	7' 9"	250	98	72	16	1	Normal
1870	42	7' 10"	255	98	72	16	1	Normal
1871	43	7' 11"	260	98	72	16	1	Normal
1872	44	8' 0"	265	98	72	16	1	Normal
1873	45	8' 1"	270	98	72	16	1	Normal
1874	46	8' 2"	275	98	72	16	1	Normal
1875	47	8' 3"	280	98	72	16	1	Normal
1876	48	8' 4"	285	98	72	16	1	Normal
1877	49	8' 5"	290	98	72	16	1	Normal
1878	50	8' 6"	295	98	72	16	1	Normal
1879	51	8' 7"	300	98	72	16	1	Normal
1880	52	8' 8"	305	98	72	16	1	Normal
1881	53	8' 9"	310	98	72	16	1	Normal
1882	54	8' 10"	315	98	72	16	1	Normal
1883	55	8' 11"	320	98	72	16	1	Normal
1884	56	9' 0"	325	98	72	16	1	Normal
1885	57	9' 1"	330	98	72	16	1	Normal
1886	58	9' 2"	335	98	72	16	1	Normal
1887	59	9' 3"	340	98	72	16	1	Normal
1888	60	9' 4"	345	98	72	16	1	Normal
1889	61	9' 5"	350	98	72	16	1	Normal
1890	62	9' 6"	355	98	72	16	1	Normal
1891	63	9' 7"	360	98	72	16	1	Normal
1892	64	9' 8"	365	98	72	16	1	Normal
1893	65	9' 9"	370	98	72	16	1	Normal
1894	66	9' 10"	375	98	72	16	1	Normal
1895	67	9' 11"	380	98	72	16	1	Normal
1896	68	10' 0"	385	98	72	16	1	Normal
1897	69	10' 1"	390	98	72	16	1	Normal
1898	70	10' 2"	395	98	72	16	1	Normal
1899	71	10' 3"	400	98	72	16	1	Normal
1900	72	10' 4"	405	98	72	16	1	Normal

Total height 10' 4" Total weight 405 lbs
 Average height 5' 10" Average weight 160 lbs

Criterion and Terman 1-8-9-10
Hoke 1-4

Products Moments

	69	202	/ 7	/28	49	784	196	
	46	145	- 16	-29	256	841	464	
	77	201	/15	/27	225	729	405	
	74	181	/12	/ 7	144	49	84	
	55	171	- 7	- 3	49	9	21	
	78	185	/16	/11	256	121	176	
	61	194	- 1	/20	1	400		20
	63	156	/ 1	-18	1	324		18
	48	147	-14	-27	196	729	378	
	50	155	-12	-19	144	361	228	
	53	182	- 9	/ 8	81	64		72
	67	173	/ 5	- 1	25	1		5
	57	159	- 5	/15	25	225	75	
	63	177	/ 1	/ 3	1	9	3	
	60	178	- 2	/ 4	4	16		8
	69	185	/ 7	/11	49	121	77	
	61	206	- 1	/32	1	1024		32
	66	172	/ 4	- 2	16	4		8
	74	199	/12	/25	144	625	300	
Stebner	41	123	-21	-51	441	2601	1071	
Uhlin	64	172	/ 2	- 2	4	4		4
	1296	3663			2112	9041	/3478	- 167
	62	174			100.52	430.52	167	
CORRELATION		/3311			10.02	20.75	/3311	
	21x10.02x20.75				=/.75			

THE UNIVERSITY OF CHICAGO

Terman	2	8	10	Hoke	4	5	Total	Deviation	Rank
15	22	16	16	67	74	72	282	-45	(2)
12	10	6	6	80	30	37	181	-56	(20)
17	20	12	20	68	70	59	266	-29	(5)
15	20	8	22	68	58	48	239	-2	(10)
13	16	10	14	71	52	38	214	-23	(18)
15	18	10	12	77	56	67	255	-18	(7)
17	18	14	18	66	64	75	272	-35	(4)
15	20	0	20	66	42	58	221	-16	(14)
12	22	8	14	69	30	48	203	-34	(19)
11	16	10	20	66	36	58	217	-20	(17)
16	22	10	18	68	56	60	250	-13	(8)
10	20	8	18	70	52	80	258	-21	(6)
16	22	8	14	64	44	52	220	-17	(15)
12	20	6	18	67	62	53	238	-1	(11)
13	22	6	20	76	52	38	227	-10	(13)
14	20	8	24	74	52	54	246	-9	(9)
14	22	14	18	77	70	71	286	-49	(1)
14	20	16	18	65	46	50	229	-8	(12)
13	20	18	22	50	80	70	273	-36	(3)
10	16	0	22	48	30	46	172	-65	(21)
14	22	10	14	69	52	38	219	-18	(16)
288	408	198	368	1426	1108	1172	4968		

Factory Control, Conditions and Costs

Material	Cost	Quantity	Value	Weight	Volume	Area	Perimeter	Surface	Volume
Steel	1.00	100	100	100	100	100	100	100	100
Aluminum	1.50	100	150	100	100	100	100	100	100
Copper	2.00	100	200	100	100	100	100	100	100
Brass	2.50	100	250	100	100	100	100	100	100
Iron	1.20	100	120	100	100	100	100	100	100
Lead	3.00	100	300	100	100	100	100	100	100
Gold	5.00	100	500	100	100	100	100	100	100
Silver	4.00	100	400	100	100	100	100	100	100
Platinum	6.00	100	600	100	100	100	100	100	100
Palladium	7.00	100	700	100	100	100	100	100	100
Rhodium	8.00	100	800	100	100	100	100	100	100
Ruthenium	9.00	100	900	100	100	100	100	100	100
Rhenium	10.00	100	1000	100	100	100	100	100	100
Osmium	11.00	100	1100	100	100	100	100	100	100
Iridium	12.00	100	1200	100	100	100	100	100	100
Scandium	13.00	100	1300	100	100	100	100	100	100
Titanium	14.00	100	1400	100	100	100	100	100	100
Zirconium	15.00	100	1500	100	100	100	100	100	100
Niobium	16.00	100	1600	100	100	100	100	100	100
Molybdenum	17.00	100	1700	100	100	100	100	100	100
Technetium	18.00	100	1800	100	100	100	100	100	100
Rubidium	19.00	100	1900	100	100	100	100	100	100
Sr	20.00	100	2000	100	100	100	100	100	100
Yttrium	21.00	100	2100	100	100	100	100	100	100
Zirconium	22.00	100	2200	100	100	100	100	100	100
Niobium	23.00	100	2300	100	100	100	100	100	100
Molybdenum	24.00	100	2400	100	100	100	100	100	100
Technetium	25.00	100	2500	100	100	100	100	100	100
Rubidium	26.00	100	2600	100	100	100	100	100	100
Sr	27.00	100	2700	100	100	100	100	100	100
Yttrium	28.00	100	2800	100	100	100	100	100	100
Zirconium	29.00	100	2900	100	100	100	100	100	100
Niobium	30.00	100	3000	100	100	100	100	100	100
Molybdenum	31.00	100	3100	100	100	100	100	100	100
Technetium	32.00	100	3200	100	100	100	100	100	100
Rubidium	33.00	100	3300	100	100	100	100	100	100
Sr	34.00	100	3400	100	100	100	100	100	100
Yttrium	35.00	100	3500	100	100	100	100	100	100
Zirconium	36.00	100	3600	100	100	100	100	100	100
Niobium	37.00	100	3700	100	100	100	100	100	100
Molybdenum	38.00	100	3800	100	100	100	100	100	100
Technetium	39.00	100	3900	100	100	100	100	100	100
Rubidium	40.00	100	4000	100	100	100	100	100	100
Sr	41.00	100	4100	100	100	100	100	100	100
Yttrium	42.00	100	4200	100	100	100	100	100	100
Zirconium	43.00	100	4300	100	100	100	100	100	100
Niobium	44.00	100	4400	100	100	100	100	100	100
Molybdenum	45.00	100	4500	100	100	100	100	100	100
Technetium	46.00	100	4600	100	100	100	100	100	100
Rubidium	47.00	100	4700	100	100	100	100	100	100
Sr	48.00	100	4800	100	100	100	100	100	100
Yttrium	49.00	100	4900	100	100	100	100	100	100
Zirconium	50.00	100	5000	100	100	100	100	100	100

100 100 100 100 100 100 100 100 100 100

	Index	Page	Debit		Index	Page	Credit	
			1	2			1	2
Acme	69	282	✓ 7	✓ 45	49	2025	315	
Ammanite	46	181	-16	-56	256	3136	896	
Allocation	77	266	✓ 15	✓ 29	225	841	435	
Delta	74	239	✓ 12	✓ 2	144	4	24	
Cardiac	55	214	- 7	-23	49	529	161	
Pyro	78	255	✓ 16	✓ 18	256	324	288	
Quartz	61	272	- 1	✓ 35	1	1225		35
Debris	63	221	✓ 1	-16	1	256		16
Alumina	48	203	-14	-34	196	1156	476	
Alumina	50	217	-12	-20	144	400	240	
Grass	53	250	- 9	✓ 13	81	169		111
Blue	67	258	✓ 5	✓ 21	25	441	105	
Subs	57	220	- 5	-17	25	289	85	
Laqueolar	63	238	✓ 1	✓ 1	1	1	1	
Star	60	227	- 2	-10	4	100	20	
Ammonite	69	246	✓ 7	✓ 9	49	81	63	
Alumina	61	286	- 1	✓ 49	1	2401		49
Alumina	66	229	✓ 4	- 8	16	64		32
Alumina	74	273	✓ 12	✓ 36	144	1296	432	
Stebner	41	172	-21	-65	441	4225	1365	
Uhlin	64	219	✓ 2	-18	4	324		36

1296 4968 2112 19287 4906 - 279
 62 237 100.52 918.43 -279
 CORRELATION 10.02 30.30 4627

$$21 \times 10.02 \times 30.30 = 4.72$$

Battery Content, Deviations and Rank

	Terman 1	3	6	8	4	5	Total	Deviation	Rank
	"	"	"	"	Hoke	"			
	15	28	20	16	74	72	225	/64	(1)
	12	0	8	6	30	37	93	--68	(21)
	17	26	16	12	70	59	200	/39	(6)
	15	20	12	8	58	48	161	0	(9)
	13	4	14	10	52	38	131	-30	(17)
	15	24	22	10	56	67	194	/33	(5)
	17	24	18	14	64	75	212	/51	(3)
	15	18	12	0	42	58	145	-16	(14)
	12	20	6	8	30	48	124	-37	(19)
	11	4	6	10	36	58	125	-36	(18)
	16	20	18	10	56	60	180	/19	(7)
	10	4	0	8	52	80	154	-7	(11)
	16	26	14	8	44	52	160	-1	(10)
	12	28	10	6	62	53	171	/10	(8)
	13	20	10	6	52	38	139	-22	(15)
	14	16	4	8	52	54	148	-13	(13)
	14	24	14	14	70	71	207	/46	(4)
	14	8	2	16	46	50	136	-25	(16)
	13	24	14	18	80	70	219	/58	(2)
	10	12	0	30	30	46	98	-63	(20)
	14	24	12	10	52	38	150	-11	(12)
	288	374	232	198	1108	1172	3372		
	14	18	11	9	53	56	161		

Report on the results of the

No.	Date	Time	Wind	Direction	Speed	Height	Temp	Barom	Remarks
1	1911	10	10	10	10	10	10	10	
2	1911	10	10	10	10	10	10	10	
3	1911	10	10	10	10	10	10	10	
4	1911	10	10	10	10	10	10	10	
5	1911	10	10	10	10	10	10	10	
6	1911	10	10	10	10	10	10	10	
7	1911	10	10	10	10	10	10	10	
8	1911	10	10	10	10	10	10	10	
9	1911	10	10	10	10	10	10	10	
10	1911	10	10	10	10	10	10	10	
11	1911	10	10	10	10	10	10	10	
12	1911	10	10	10	10	10	10	10	
13	1911	10	10	10	10	10	10	10	
14	1911	10	10	10	10	10	10	10	
15	1911	10	10	10	10	10	10	10	
16	1911	10	10	10	10	10	10	10	
17	1911	10	10	10	10	10	10	10	
18	1911	10	10	10	10	10	10	10	
19	1911	10	10	10	10	10	10	10	
20	1911	10	10	10	10	10	10	10	
21	1911	10	10	10	10	10	10	10	
22	1911	10	10	10	10	10	10	10	
23	1911	10	10	10	10	10	10	10	
24	1911	10	10	10	10	10	10	10	
25	1911	10	10	10	10	10	10	10	
26	1911	10	10	10	10	10	10	10	
27	1911	10	10	10	10	10	10	10	
28	1911	10	10	10	10	10	10	10	
29	1911	10	10	10	10	10	10	10	
30	1911	10	10	10	10	10	10	10	
31	1911	10	10	10	10	10	10	10	
32	1911	10	10	10	10	10	10	10	
33	1911	10	10	10	10	10	10	10	
34	1911	10	10	10	10	10	10	10	
35	1911	10	10	10	10	10	10	10	
36	1911	10	10	10	10	10	10	10	
37	1911	10	10	10	10	10	10	10	
38	1911	10	10	10	10	10	10	10	
39	1911	10	10	10	10	10	10	10	
40	1911	10	10	10	10	10	10	10	
41	1911	10	10	10	10	10	10	10	
42	1911	10	10	10	10	10	10	10	
43	1911	10	10	10	10	10	10	10	
44	1911	10	10	10	10	10	10	10	
45	1911	10	10	10	10	10	10	10	
46	1911	10	10	10	10	10	10	10	
47	1911	10	10	10	10	10	10	10	
48	1911	10	10	10	10	10	10	10	
49	1911	10	10	10	10	10	10	10	
50	1911	10	10	10	10	10	10	10	
51	1911	10	10	10	10	10	10	10	
52	1911	10	10	10	10	10	10	10	
53	1911	10	10	10	10	10	10	10	
54	1911	10	10	10	10	10	10	10	
55	1911	10	10	10	10	10	10	10	
56	1911	10	10	10	10	10	10	10	
57	1911	10	10	10	10	10	10	10	
58	1911	10	10	10	10	10	10	10	
59	1911	10	10	10	10	10	10	10	
60	1911	10	10	10	10	10	10	10	
61	1911	10	10	10	10	10	10	10	
62	1911	10	10	10	10	10	10	10	
63	1911	10	10	10	10	10	10	10	
64	1911	10	10	10	10	10	10	10	
65	1911	10	10	10	10	10	10	10	
66	1911	10	10	10	10	10	10	10	
67	1911	10	10	10	10	10	10	10	
68	1911	10	10	10	10	10	10	10	
69	1911	10	10	10	10	10	10	10	
70	1911	10	10	10	10	10	10	10	
71	1911	10	10	10	10	10	10	10	
72	1911	10	10	10	10	10	10	10	
73	1911	10	10	10	10	10	10	10	
74	1911	10	10	10	10	10	10	10	
75	1911	10	10	10	10	10	10	10	
76	1911	10	10	10	10	10	10	10	
77	1911	10	10	10	10	10	10	10	
78	1911	10	10	10	10	10	10	10	
79	1911	10	10	10	10	10	10	10	
80	1911	10	10	10	10	10	10	10	
81	1911	10	10	10	10	10	10	10	
82	1911	10	10	10	10	10	10	10	
83	1911	10	10	10	10	10	10	10	
84	1911	10	10	10	10	10	10	10	
85	1911	10	10	10	10	10	10	10	
86	1911	10	10	10	10	10	10	10	
87	1911	10	10	10	10	10	10	10	
88	1911	10	10	10	10	10	10	10	
89	1911	10	10	10	10	10	10	10	
90	1911	10	10	10	10	10	10	10	
91	1911	10	10	10	10	10	10	10	
92	1911	10	10	10	10	10	10	10	
93	1911	10	10	10	10	10	10	10	
94	1911	10	10	10	10	10	10	10	
95	1911	10	10	10	10	10	10	10	
96	1911	10	10	10	10	10	10	10	
97	1911	10	10	10	10	10	10	10	
98	1911	10	10	10	10	10	10	10	
99	1911	10	10	10	10	10	10	10	
100	1911	10	10	10	10	10	10	10	

[illegible]

Terman 1-7-8-9

Hoke 4-5-6

Battery Content, Deviations and Rank

	Terman 1	7	8	9	4	5	6	Total	Deviation	Rank
	"	"	"	"	Hoke	"	"			
Lester	15	17	16	14	74	72	116	324	/63	(2)
James A. La	12	7	6	11	30	37	72	175	-86	(21)
Callaghan	17	16	12	14	70	59	116	304	/43	(4 $\frac{1}{2}$)
Gelvin	15	18	8	10	58	48	120	277	/16	(9 $\frac{1}{2}$)
Condit	13	17	10	11	52	38	120	261	0	(12 $\frac{1}{2}$)
Curran	15	18	10	15	56	67	108	289	/28	(6)
Condit	17	20	14	15	64	75	120	325	/64	(1)
Dallas	15	15	0	13	42	58	120	263	/2	(11)
Wilem	12	16	8	14	30	48	62	190	-71	(20)
Condit	11	8	10	12	36	58	100	235	-26	(15)
Condit	16	18	10	14	56	60	106	280	/19	(7)
Wiley	10	16	8	15	52	80	80	261	0	(12 $\frac{1}{2}$)
Hebert	16	14	8	13	44	52	62	209	-52	(18)
LeDucelle	12	16	6	12	62	53	116	277	/16	(9 $\frac{1}{2}$)
Condit	13	15	6	11	52	38	82	217	-44	(17)
Wiley	14	17	8	13	52	54	120	278	/17	(8)
McGee	14	15	14	13	70	71	120	317	/56	(3)
McGee	14	15	16	13	46	50	80	234	-27	(16)
Spencer	13	19	18	16	80	70	88	304	/43	(4 $\frac{1}{2}$)
Spencer	10	18	0	13	30	46	78	195	-66	(19)
Wiley	14	17	10	13	52	38	112	256	-5	(14)
	288	332	198	275	1108	1172	2098	5261		

Criterion and Terman 1-7-8-9-
Hoke 4-5-6

Products Moments

	Criterion	Terman	1	7	8	9		
Criterion	69	324	/ 7	/ 63	49	3969	431	
Terman	46	175	-16	-86	256	7396	1376	
1-7-8-9-	77	304	/15	/43	225	1849	645	
Hoke	74	277	/12	/16	144	256	192	
4-5-6	55	261	- 7	0	49	0		
	78	289	/16	/28	256	784	448	
	61	325	- 1	/64	1	4096		64
	63	263	/ 1	/ 2	1	4	2	
	48	190	-14	-71	196	5041	994	
	50	235	-12	-26	144	676	312	
	53	280	- 9	/19	81	361		171
	67	261	/ 5	0	25	0		
	57	209	- 5	-52	25	2704	260	
	63	277	/ 1	/16	1	256	16	
	60	217	- 2	-44	4	1936	88	
	69	278	/ 7	/17	49	289	119	
	61	317	- 1	/56	1	3136		56
	66	234	/ 4	-27	16	729		108
	74	304	/12	/43	144	1849	516	
	41	195	-21	-66	441	4356	1386	
	64	256	/ 2	- 5	4	25		10
	1296	5471			2112	39712	/6785	-409
	62	261			100.52	18.91	- 409	
			/6376		10.02	43.50	/6376	
CORRELATION			21x10.02x43.50					= - / .70

Terman 2-3-6-8

Hoke 4-6

Battery Content, Deviations and Rank

	Terman 2	3	6	8	4	6	Total	Deviation	Rank
	"	"	"	"	Hoke	"			
...	22	28	20	16	74	116	276	+66	(1)
...	10	0	8	6	30	72	126	-84	(21)
...	20	26	16	12	70	116	260	+50	(3)
...	20	20	12	8	58	120	238	+28	(7½)
...	16	4	14	10	52	120	216	+6	(2)
...	18	24	22	10	56	108	238	+28	(7½)
...	18	24	18	14	64	120	258	+48	(4)
...	20	18	12	0	42	120	212	+2	(13)
...	22	20	6	8	30	62	148	-62	(19)
...	16	4	6	10	36	100	172	-38	(16½)
...	22	20	18	10	56	106	232	+22	(9½)
...	20	4	0	8	52	80	164	-46	(18)
...	22	26	14	8	44	62	176	-34	(15)
...	20	28	10	6	62	116	242	+32	(6)
...	22	20	10	6	52	82	192	-18	(14)
...	20	16	4	8	52	120	220	+10	(11)
...	22	24	14	14	70	120	264	+54	(2)
...	20	8	2	16	46	80	172	-38	(16½)
...	20	24	14	18	80	88	244	+34	(5)
...	16	12	0	0	30	78	136	-74	(20)
...	22	24	12	10	52	112	232	+22	(9½)
	408	374	232	198	1108	2098	4418		
	19	18	11	9	53	100	210		

Criterion and Terman 2-3-6-8-
Hoke 4-6

Products Moments

	69	276	/ 7	/66	49	4356	462	
	46	126	-16	-84	256	7056	1344	
	77	260	/15	/50	225	2500	750	
	74	238	/12	/28	144	784	336	
	55	216	- 7	/ 6	49	36		42
	78	238	/16	/28	256	784	448	
	61	258	- 1	/48	1	2304		48
	63	212	/ 1	/ 2	1	4	2	
	48	148	-14	-62	196	3844	868	
	50	172	-12	-38	144	1444	456	
	53	232	- 9	/22	81	484		198
	67	164	/ 5	-46	25	2116		230
	57	176	- 5	-34	25	1156	170	
	63	242	/ 1	/32	1	1024	32	
	60	192	- 2	-18	4	324	36	
	69	220	/ 7	/10	49	100	70	
	61	264	- 1	/54	1	2916		54
	66	172	/ 4	-38	16	1441		152
	74	244	/12	/34	144	1156	408	
Stebner	41	136	-21	-74	441	5476	1554	
Uhlin	64	232	/ 2	/22	4	484	44	

1296 4418 2112 39789 /6980 -724
62 210 100.52 1894 -724
CORRELATION /6256 10.02 42.89 /6256
21x10.02x42.89 /6256

TABLE 1

No.	Name	Age	Sex	Height	Weight	Temp.	Pulse	Respiration	Blood Pressure	Remarks
1	John Doe	25	M	5' 8"	150	98.6	72	18	120/80	
2	Jane Smith	22	F	5' 4"	120	98.4	68	16	110/70	
3	Robert Brown	30	M	6' 0"	180	98.8	75	20	130/90	
4	Mary White	28	F	5' 6"	135	98.5	70	17	115/75	
5	James Green	35	M	6' 2"	190	98.9	78	22	135/95	
6	Elizabeth Black	24	F	5' 5"	125	98.3	65	15	110/70	
7	William Gray	32	M	6' 1"	185	98.7	74	19	125/85	
8	Anna Lee	26	F	5' 7"	130	98.6	69	16	112/72	
9	Charles King	38	M	6' 3"	200	99.0	80	24	140/100	
10	Sarah Hall	23	F	5' 3"	115	98.2	62	14	105/65	
11	Thomas Young	31	M	6' 0"	180	98.8	73	18	120/80	
12	Patricia Scott	27	F	5' 6"	130	98.5	71	17	115/75	
13	Richard Hill	33	M	6' 1"	185	98.9	76	20	130/90	
14	Linda Adams	25	F	5' 5"	125	98.4	67	15	110/70	
15	George Baker	36	M	6' 2"	190	98.9	77	21	135/95	
16	Michelle Carter	24	F	5' 4"	120	98.3	66	14	108/68	
17	Edward Davis	34	M	6' 3"	195	99.0	79	23	140/100	
18	Barbara Evans	26	F	5' 6"	130	98.6	70	17	115/75	
19	Frank Foster	37	M	6' 4"	205	99.1	81	25	145/105	
20	Deborah Galt	23	F	5' 3"	115	98.2	63	14	105/65	
21	Harold Gibson	32	M	6' 1"	185	98.8	74	19	125/85	
22	Kimberly Hays	25	F	5' 5"	125	98.4	68	15	110/70	
23	Robert Jones	35	M	6' 2"	190	98.9	77	21	135/95	
24	Christina King	24	F	5' 4"	120	98.3	65	14	108/68	
25	William Lee	31	M	6' 0"	180	98.8	73	18	120/80	
26	Angela Martin	27	F	5' 6"	130	98.5	71	17	115/75	
27	Joseph Miller	33	M	6' 1"	185	98.9	76	20	130/90	
28	Stephanie Moore	25	F	5' 5"	125	98.4	67	15	110/70	
29	Donald Nelson	36	M	6' 2"	190	98.9	77	21	135/95	
30	Rebecca Oliver	23	F	5' 3"	115	98.2	63	14	105/65	
31	Harvey Parker	32	M	6' 1"	185	98.8	74	19	125/85	
32	Heather Quinn	25	F	5' 5"	125	98.4	68	15	110/70	
33	Clarence Reed	35	M	6' 2"	190	98.9	77	21	135/95	
34	Victoria Scott	24	F	5' 4"	120	98.3	65	14	108/68	
35	Walter Taylor	31	M	6' 0"	180	98.8	73	18	120/80	
36	Janet Vance	27	F	5' 6"	130	98.5	71	17	115/75	
37	Albert Warren	33	M	6' 1"	185	98.9	76	20	130/90	
38	Shirley Wright	25	F	5' 5"	125	98.4	67	15	110/70	
39	Samuel Young	36	M	6' 2"	190	98.9	77	21	135/95	
40	Frances Ziegler	23	F	5' 3"	115	98.2	63	14	105/65	

Total No. of Patients: 40
 Total No. of Examinations: 40
 Date: 10/15/1918
 Location: U.S. Army Medical Department
 Hospital, Camp Detrick, Maryland

German 3-5-8-10

Hoke 1-2-4

Battery Content, Deviations and Rank

	German 3	5	8	10	1	2	4	Total	Deviation	Rank
Adams	23	12	16	16	57	60	74	231	+40	(2)
Annunziata	0	4	6	6	30	78	30	204	-37	(20)
Ballan	26	16	12	20	68	57	70	259	+23	(3)
Barton	20	14	8	22	66	73	58	268	+27	(4)
Castillo	4	4	10	14	71	72	52	227	-14	(14)
Darson	24	6	10	12	77	56	56	241	0	(12½)
Dumville	24	16	14	18	66	57	64	259	+16	(7)
Dufford	12	18	0	20	66	62	42	226	-15	(15)
Elmore	20	6	8	14	69	66	30	213	-23	(19)
Glendon	4	18	10	20	66	70	36	224	-17	(16)
Grove	20	14	10	18	68	62	56	246	+5	(8)
Haley	4	12	8	18	70	56	52	220	-21	(16)
Hansen	26	14	8	14	64	75	44	245	+4	(9)
LaChapelle	28	8	6	18	67	74	62	263	+22	(5)
Lyden	20	12	6	20	76	57	52	243	+2	(10½)
MacFarlane	16	6	6	24	74	61	52	241	0	(12½)
McGowan	24	6	14	18	77	74	70	283	+42	(1)
McIntosh	8	6	16	16	65	62	46	221	-30	(17)
Monahan	24	6	18	22	50	59	80	261	+20	(6)
Stewart	12	10	0	22	48	68	30	190	-51	(21)
White	24	16	10	14	69	58	52	243	+2	(10½)
	374	226	198	268	142	1370	1100	5008		
	18	11	9	18	68	66	53	241		

	1	2	3	4	5	6	7	8
69	281	/ 7	/40	49	1600	280		
46	204	-16	-37	256	1369	592		
77	269	/15	/28	225	784	420		
74	268	/12	/27	144	729	324		
55	227	- 7	-14	49	196	98		
78	241	/16	0	256				
61	259	- 1	/18	1	324		18	
63	226	/ 1	-15	1	225		15	
48	213	-14	-28	196	784	392		
50	224	-12	-17	144	289	204		
53	246	- 9	/ 5	81	25		45	
67	220	/ 5	-21	25	441		105	
57	245	- 5	/ 4	25	16		20	
63	263	/ 1	/22	1	484	22		
60	243	- 2	/ 2	4	4		4	
69	241	/ 7	0	49				
61	283	- 1	/42	1	1764		42	
66	221	/ 4	-20	16	400		80	
74	261	/12	/20	144	400	240		
41	190	-21	-51	441	2601	1071		
Uhlin	64	243	/ 2	/ 2	4	4	4	
	1296	5068		2112	12439	/3647		-329
	62	241		100.52	592.33	- 329		
				10.02	24.03	/3318		
CORRELATION		/3318						
		21x10.02x24.03						

Table of Contents

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100	100	100	100	100	100	100

Terman 3-7-8-9-10

Hoke 1-4

Battery Content, Deviations and Rank

	Terman 3	7	8	9	10	Hoke 1	4	Total	Deviation	Rank
	"	"	"	"	"	"	"			
Adcock	28	17	16	14	16	67	74	232	37	(1)
Annunziata	0	7	6	11	6	80	30	140	-55	(21)
Ballantine	26	16	12	14	20	68	70	225	31	(4)
Belkin	20	18	8	10	22	68	58	204	9	(9)
Cardillo	4	17	10	11	14	71	52	179	-16	(16)
Corson	24	18	10	15	12	77	56	212	17	(6)
Cunniffe	24	20	14	15	18	66	64	221	26	(5)
DeMarco	18	15	0	13	20	66	42	174	-21	(17)
Gibson	20	16	8	14	14	69	30	171	-24	(18)
Giordano	4	8	10	12	20	66	36	156	-39	(19)
Greene	20	18	10	14	18	68	56	204	9	(9)
Haley	4	16	8	15	18	70	52	183	-12	(13 $\frac{1}{2}$)
Hebert	26	14	8	13	14	64	44	183	-12	(13 $\frac{1}{2}$)
LaChapelle	28	16	6	12	18	67	62	209	14	(7)
Lyden	20	15	6	11	20	76	52	200	5	(11)
MacDougal	16	17	8	13	24	74	52	204	9	(9)
McCauley	24	15	14	13	18	77	70	231	36	(2)
McIntosh	8	15	16	13	18	65	46	181	-14	(15)
Spencer	24	19	18	16	22	50	80	229	34	(3)
Stebner	12	18	0	13	22	48	30	143	-52	(20)
Uhlin	24	17	10	13	14	69	52	199	4	(12)
	374	332	198	275	368	1426	1108	4081		
	18	16	9	13	18	68	53	195		

	Frequency	Class	f	f	f	f	f	f
June	69	232	7	37	49	1369	259	
July	46	140	-16	-55	256	3025	880	
August	77	226	15	31	225	961	465	
Sept	74	204	12	9	144	81	108	
Oct	55	179	-7	-16	49	256	112	
Nov	78	212	16	17	256	289	272	
Dec	61	221	-1	26	1	676		26
Jan	63	174	1	-21	1	441		21
Feb	48	171	-14	-24	196	576	336	
Mar	50	156	-12	-39	144	1521	468	
Apr	53	204	-9	9	81	81		81
May	67	183	5	-12	25	144		60
June	57	183	-5	-12	25	144	60	
July	63	209	1	14	1	196	14	
Aug	60	200	-2	5	4	25		10
Sept	69	204	7	9	49	81	63	
Oct	61	231	-1	36	1	1296		36
Nov	66	181	4	-14	16	196		56
Dec	74	229	12	34	144	1156	408	
Jan	41	143	-21	-52	441	2704	1092	
Feb	64	255	2	4	4	16	8	
	1296	4081			2112	15234	4545	-290
	62	195			100.52	725.43	-290	
					10.02	26.93	4255	
CORRELATION			4255					
			21x26.93x10.02					

[illegible]

Criterion and Terman 6-7-8-10
Hoke 4-5-6-

Products Moments

69	331	/ 7	/ 69	49	4761	483	
46	166	-16	-96	256	9216	1536	
77	309	/ 15	/ 47	225	2209	705	
74	286	/ 12	/ 24	144	576	288	
55	265	- 7	/ 3	49	9		21
78	293	/ 16	/ 31	256	961	496	
61	329	- 1	/ 67	1	4489		67
63	267	/ 1	/ 5	1	25	5	
48	184	-14	-78	196	6084	1092	
50	238	-12	-24	144	576	288	
53	286	- 9	/ 24	81	576		216
67	254	/ 5	- 8	25	64		40
57	208	- 5	-54	25	2916	270	
63	281	/ 1	/ 19	1	361	19	
60	223	- 2	-39	4	1521	78	
69	279	/ 7	/ 17	49	289	119	
61	322	- 1	/ 60	1	3600		60
66	227	/ 4	-35	16	1225		140
74	311	/ 12	/ 49	144	2401	588	
41	194	-21	-68	441	4624	1428	
64	255	/ 2	- 7	4	49		14
1296	5508			2112	46532	/ 7395	-558
62	262			100.52	2215.81	- 558	
				10.02	47.07	/ 6837	

CORRELATION

$$\frac{6837}{21 \times 10.02 \times 47.07} = .69$$

[illegible]

69	157	7	7	31	49	961	217	
46	75	-16	-51	256	2601	816		
77	153	15	27	225	729	405		
74	133	12	7	144	49	84		
55	116	-17	-10	49	100	70		
78	126	16	0	256	0			
61	146	- 1	20	1	400			20
63	110	1	-16	1	256			16
48	100	-14	-26	196	676	364		
50	105	-12	-21	144	441	252		
53	136	- 9	10	81	100			90
67	123	5	- 3	25	9			15
57	117	- 5	- 9	25	81	45		
63	130	1	4	1	16	4		
60	124	- 2	- 2	4	4	4		
69	131	7	5	49	25	35		
61	151	- 1	25	1	625			25
66	127	4	1	16	1	4		
74	169	12	43	144	1849	516		
41	91	-21	-35	441	1225	735		
64	125	2	- 1	4	1			2
1296	2645			2112	10149	3551	-168	
62	126			100.52	483	- 168		
				10.02	22.00	3383		

$$\frac{3383}{21 \times 10.02 \times 22.00} = 7.73$$

Terman 1-8-9-10
Hoke 1-4 -Hoke 2

Battery Content, Deviations and Rank

	Terman 1-8-9-10-1-4	-Hoke 2	Terman 1-8- 9-10-1-4 -Hoke 2	Deviation	Rank
Archer	202	68	134	✓25	(4)
Armstrong	145	78	67	-42	(20)
Bellington	201	57	144	✓35	(1)
Belton	181	78	103	-6	(13½)
Bendillo	171	72	99	-10	(15)
Benson	185	56	129	✓20	(6)
Burnette	194	57	137	✓28	(3)
DeWitt	156	62	94	-15	(16)
Hibbs	147	66	81	-28	(19)
Stordano	155	70	85	-24	(17)
Smith	182	62	120	✓11	(9)
Thompson	173	56	117	✓8	(10)
Tolson	159	75	84	-25	(18)
Tracy	177	74	103	-6	(13½)
Wright	178	57	121	✓12	(8)
Ward	185	61	124	✓15	(7)
Ward	206	74	132	✓23	(5)
Ward	172	62	110	✓1	(12)
Ward	199	59	140	✓31	(2)
Ward	123	68	55	-54	(21)
Ward	172	58	114	✓5	(11)
	3663	1370	2293		109

Table 1. Summary of Data for Selected Years

Year	Area	Population	Area	Population
1901	100	100	100	100
1902	100	100	100	100
1903	100	100	100	100
1904	100	100	100	100
1905	100	100	100	100
1906	100	100	100	100
1907	100	100	100	100
1908	100	100	100	100
1909	100	100	100	100
1910	100	100	100	100
1911	100	100	100	100
1912	100	100	100	100
1913	100	100	100	100
1914	100	100	100	100
1915	100	100	100	100
1916	100	100	100	100
1917	100	100	100	100
1918	100	100	100	100
1919	100	100	100	100
1920	100	100	100	100
1921	100	100	100	100
1922	100	100	100	100
1923	100	100	100	100
1924	100	100	100	100
1925	100	100	100	100
1926	100	100	100	100
1927	100	100	100	100
1928	100	100	100	100
1929	100	100	100	100
1930	100	100	100	100
1931	100	100	100	100
1932	100	100	100	100
1933	100	100	100	100
1934	100	100	100	100
1935	100	100	100	100
1936	100	100	100	100
1937	100	100	100	100
1938	100	100	100	100
1939	100	100	100	100
1940	100	100	100	100
1941	100	100	100	100
1942	100	100	100	100
1943	100	100	100	100
1944	100	100	100	100
1945	100	100	100	100
1946	100	100	100	100
1947	100	100	100	100
1948	100	100	100	100
1949	100	100	100	100
1950	100	100	100	100
1951	100	100	100	100
1952	100	100	100	100
1953	100	100	100	100
1954	100	100	100	100
1955	100	100	100	100
1956	100	100	100	100
1957	100	100	100	100
1958	100	100	100	100
1959	100	100	100	100
1960	100	100	100	100
1961	100	100	100	100
1962	100	100	100	100
1963	100	100	100	100
1964	100	100	100	100
1965	100	100	100	100
1966	100	100	100	100
1967	100	100	100	100
1968	100	100	100	100
1969	100	100	100	100
1970	100	100	100	100
1971	100	100	100	100
1972	100	100	100	100
1973	100	100	100	100
1974	100	100	100	100
1975	100	100	100	100
1976	100	100	100	100
1977	100	100	100	100
1978	100	100	100	100
1979	100	100	100	100
1980	100	100	100	100
1981	100	100	100	100
1982	100	100	100	100
1983	100	100	100	100
1984	100	100	100	100
1985	100	100	100	100
1986	100	100	100	100
1987	100	100	100	100
1988	100	100	100	100
1989	100	100	100	100
1990	100	100	100	100
1991	100	100	100	100
1992	100	100	100	100
1993	100	100	100	100
1994	100	100	100	100
1995	100	100	100	100
1996	100	100	100	100
1997	100	100	100	100
1998	100	100	100	100
1999	100	100	100	100
2000	100	100	100	100
2001	100	100	100	100
2002	100	100	100	100
2003	100	100	100	100
2004	100	100	100	100
2005	100	100	100	100
2006	100	100	100	100
2007	100	100	100	100
2008	100	100	100	100
2009	100	100	100	100
2010	100	100	100	100
2011	100	100	100	100
2012	100	100	100	100
2013	100	100	100	100
2014	100	100	100	100
2015	100	100	100	100
2016	100	100	100	100
2017	100	100	100	100
2018	100	100	100	100
2019	100	100	100	100
2020	100	100	100	100
2021	100	100	100	100
2022	100	100	100	100
2023	100	100	100	100
2024	100	100	100	100
2025	100	100	100	100
2026	100	100	100	100
2027	100	100	100	100
2028	100	100	100	100
2029	100	100	100	100
2030	100	100	100	100
2031	100	100	100	100
2032	100	100	100	100
2033	100	100	100	100
2034	100	100	100	100
2035	100	100	100	100
2036	100	100	100	100
2037	100	100	100	100
2038	100	100	100	100
2039	100	100	100	100
2040	100	100	100	100
2041	100	100	100	100
2042	100	100	100	100
2043	100	100	100	100
2044	100	100	100	100
2045	100	100	100	100
2046	100	100	100	100
2047	100	100	100	100
2048	100	100	100	100
2049	100	100	100	100
2050	100	100	100	100
2051	100	100	100	100
2052	100	100	100	100
2053	100	100	100	100
2054	100	100	100	100
2055	100	100	100	100
2056	100	100	100	100
2057	100	100	100	100
2058	100	100	100	100
2059	100	100	100	100
2060	100	100	100	100
2061	100	100	100	100
2062	100	100	100	100
2063	100	100	100	100
2064	100	100	100	100
2065	100	100	100	100
2066	100	100	100	100
2067	100	100	100	100
2068	100	100	100	100
2069	100	100	100	100
2070	100	100	100	100
2071	100	100	100	100
2072	100	100	100	100
2073	100	100	100	100
2074	100	100	100	100
2075	100	100	100	100
2076	100	100	100	100
2077	100	100	100	100
2078	100	100	100	100
2079	100	100	100	100
2080	100	100	100	100
2081	100	100	100	100
2082	100	100	100	100
2083	100	100	100	100
2084	100	100	100	100
2085	100	100	100	100
2086	100	100	100	100
2087	100	100	100	100
2088	100	100	100	100
2089	100	100	100	100
2090	100	100	100	100
2091	100	100	100	100
2092	100	100	100	100
2093	100	100	100	100
2094	100	100	100	100
2095	100	100	100	100
2096	100	100	100	100
2097	100	100	100	100
2098	100	100	100	100
2099	100	100	100	100
2100	100	100	100	100

Criterion and Terman 1-8-9-10

Hoke 1-4--Minus H2

Products Moments

	Criterion	Battery	Deviations		X ²	Y ²	Product	
			X	Y			f	-
Adcock	69	134	/ 7	/25	49	625	175	
Annunziata	46	67	-16	-42	256	1764	672	
Ballantine	77	144	/15	/35	225	1225	525	
Belkin	74	103	/12	- 6	144	36		72
Cardillo	55	99	- 7	-10	49	100	70	
Corson	78	129	/16	/20	256	400	320	
Cunniffe	61	137	- 1	/28	1	784		28
DeMarco	63	94	/ 1	-15	1	225		15
Gibson	48	81	-14	-28	196	784	392	
Giordano	50	85	-12	-24	144	576	288	
Greene	53	120	- 9	/11	81	121		99
Haley	67	117	/ 5	/ 8	25	64	40	
Hebert	57	84	- 5	-25	25	625	125	
LaChapelle	63	103	/ 1	- 6	1	36		6
Lyden	60	121	- 2	/12	4	144		24
MacDougal	69	124	/ 7	/15	49	225	105	
McCauley	61	132	- 1	/23	1	529		23
McIntosh	66	110	/ 4	/ 1	16	1	4	
Spencer	74	140	/12	/31	144	961	372	
Stebner	41	55	-21	-54	441	2916	1134	
Uhlin	64	114	/ 2	/ 5	4	25	10	
	1296	2293			2112	12166	4232	-267
	62	109			100.52	579.33	267	
					10.02	24.05	3965	

CORRELATION

$$\frac{3965}{21 \times 10.02 \times 24.05} = .783$$

Terman 3-7-8-9-10
Hoke 1-4 -Hoke2

Battery Content, Deviations and Rank

Terman 3-7-8-9-10 1-4	-Hoke 2	Terman 3-7-8-9-10 1-4 -Hoke 2	Deviation	Rank
232	68	164	/35	(3 $\frac{1}{2}$)
140	78	62	-67	(21)
226	57	169	/40	(2)
204	78	126	-3	(13)
179	72	107	-22	(17)
212	56	156	/27	(6)
221	57	164	/35	(3 $\frac{1}{2}$)
174	62	112	-17	(15)
171	66	105	-24	(18)
156	70	86	-43	(19)
204	62	142	/13	(9)
183	56	127	-2	(12)
183	75	108	-21	(16)
209	74	135	/6	(11)
200	57	143	/14	(7 $\frac{1}{2}$)
204	61	143	/14	(7 $\frac{1}{2}$)
231	74	157	/23	(5)
181	62	119	-10	(14)
229	59	170	/41	(1)
143	68	75	-54	(20)
199	58	141	/12	(10)
4088	1370	2718		
		129		

Table of the results of the 1911 Census of the United Kingdom

Age	Males		Females	
	No.	%	No.	%
0-4	1,000,000	10.0	1,000,000	10.0
5-9	950,000	9.5	950,000	9.5
10-14	900,000	9.0	900,000	9.0
15-19	850,000	8.5	850,000	8.5
20-24	800,000	8.0	800,000	8.0
25-29	750,000	7.5	750,000	7.5
30-34	700,000	7.0	700,000	7.0
35-39	650,000	6.5	650,000	6.5
40-44	600,000	6.0	600,000	6.0
45-49	550,000	5.5	550,000	5.5
50-54	500,000	5.0	500,000	5.0
55-59	450,000	4.5	450,000	4.5
60-64	400,000	4.0	400,000	4.0
65-69	350,000	3.5	350,000	3.5
70-74	300,000	3.0	300,000	3.0
75-79	250,000	2.5	250,000	2.5
80-84	200,000	2.0	200,000	2.0
85-89	150,000	1.5	150,000	1.5
90-94	100,000	1.0	100,000	1.0
95-99	50,000	0.5	50,000	0.5
100+	10,000	0.1	10,000	0.1
Total	10,000,000	100.0	10,000,000	100.0

Criterion and Terman 3-7-8-9-10

Hoke 1-4 - Hoke 2

Products Moments

	69	164	/ 7	/35	49	1225	245	
	46	62	-16	-67	256	4489	1072	
	77	169	/15	/40	225	1600	600	
	74	126	/12	- 3	144	9		36
	55	107	- 7	-22	49	484	154	
	78	156	/16	/27	256	729	432	
	61	164	- 1	/35	1	1225		35
	63	112	/ 1	-17	1	289		17
	48	105	-14	-24	196	576	336	
	50	86	-12	-43	144	1849	516	
	53	142	- 9	/13	81	169		117
	67	127	/ 5	- 2	25	4	10	
	57	108	- 5	-21	25	441	105	
	63	135	/ 1	/ 6	1	36	6	
	60	143	- 2	/14	4	196		28
	69	143	/ 7	/14	49	196	98	
	61	157	- 1	/28	1	784		28
	66	119	/ 4	-10	16	100		40
	74	170	/12	/41	144	1681	492	
	41	75	-21	-54	441	2916	1134	
	64	141	/ 2	/12	4	144	24	
	1296	2718			2112	19142	/5214	-311
	62	129			10052	911.52	- 311	
					10.02	30.19	/4903	
CORRELATION			/4903					
				= /	.772			
				21x10.02x30.19				

Terman 1-2-5-8-9-10-1-4

- Hoke 2

Battery Content, Deviations and Rank

	Terman 1-2-5-8-9-10 1-4	-Hoke 2	Deviation	Rank	Terman 1-2-5-8-9-10 1-4 -Hoke 2
Alcohol	236	68	29	(3 $\frac{1}{2}$)	168
Alcoholism	159	78	-58	(20 $\frac{1}{2}$)	81
Ballistics	237	57	41	(1)	180
Calculus	215	78	- 2	(12)	137
Case Study	191	72	-20	(17 $\frac{1}{2}$)	119
Chemistry	209	56	14	(8)	153
Civilization	228	57	32	(2)	171
Constitution	194	62	- 7	(14)	132
History	175	66	-30	(19)	109
Statistics	189	70	-20	(17 $\frac{1}{2}$)	119
Physics	218	62	17	(6)	156
Religion	205	56	10	(11)	149
Science	195	75	-19	(16)	120
Teaching	205	74	- 8	(15)	131
Speech	212	57	16	(7)	155
Writing	211	61	11	(10)	150
Mathematics	234	74	21	(5)	160
Psychology	198	62	- 3	(13)	136
Summary	227	59	29	(3 $\frac{1}{2}$)	168
Major	149	68	-58	(20 $\frac{1}{2}$)	81
Minor	<u>210</u>	<u>58</u>	13	(9)	<u>152</u>
	4297	1370			2927 139

Criterion and Terman 1-2-5-8-9-10
Hoke 1-4 - Hoke 2

Products Moments

69	168	/ 7	/29	49	841	203	
46	81	-16	-58	256	3364	928	
77	180	/15	/41	225	1681	615	
74	137	/12	- 2	144	4		24
55	119	- 7	-20	49	400	140	
78	153	/16	/14	256	196	224	
61	171	- 1	/32	1	1024		32
63	132	/ 1	- 7	1	49		7
48	109	-14	-30	196	900	420	
50	119	-12	-20	144	400	240	
53	156	- 9	/17	81	289		153
67	149	/ 5	/10	25	100	50	
57	120	- 5	-19	25	361	95	
63	131	/ 1	- 8	1	64		8
60	155	- 2	/16	4	256		32
69	150	/ 7	/11	49	121	77	
61	160	- 1	/21	1	441		21
66	136	/ 4	- 3	16	9		12
74	168	/12	/29	144	841	348	
41	81	-21	-58	441	3364	1218	
64	152	/ 2	/13	4	169	26	
1296	2927			2112	14874	/4584	-289
62	139				100.52708.30	- 289	
					10.02	26.60	/4295
CORRELATION		/4295					
		= / .77					
		21x10.02x26.60					

Terman 1-2-9-10
Hoke 1-4 -Hoke 2

Battery Content, Deviations and Rank

	Terman 1-2-9-10-1-4	-Hoke 2	Terman 1-2-9-10-1-4-Hoke 2	Deviation	Rank
Adams	208	68	140	/21	(4 $\frac{1}{2}$)
Kenneth	149	78	71	-48	(20 $\frac{1}{2}$)
Bellevue	209	57	152	/33	(1)
Smith	193	78	115	-4	(13)
Davidson	177	72	105	-14	(16)
Conrad	193	56	137	/18	(6 $\frac{1}{2}$)
Gunn	198	57	141	/22	(3)
Tracy	176	62	114	-5	(14 $\frac{1}{2}$)
Stacy	161	66	95	-24	(18)
Richardson	161	70	91	-28	(19)
Wright	194	62	132	/13	(9)
Tracy	185	56	129	/10	(10)
Wright	173	75	98	-21	(17)
Bellevue	191	74	117	-2	(12)
Smith	194	57	137	/18	(6 $\frac{1}{2}$)
Bellevue	197	61	136	/17	(8)
Wright	214	74	140	/21	(4 $\frac{1}{2}$)
Tracy	176	62	114	-5	(14 $\frac{1}{2}$)
Tracy	201	59	142	/23	(2)
Conrad	139	68	71	-48	(20 $\frac{1}{2}$)
Smith	<u>184</u>	<u>58</u>	<u>126</u>	/7	(11)
	3873	1370	2503		
			119		

1944-1945
1946-1947

Summary of Results, 1944-1945

Year	1944	1945	1946	1947
(1)	100	100	100	100
(2)	100	100	100	100
(3)	100	100	100	100
(4)	100	100	100	100
(5)	100	100	100	100
(6)	100	100	100	100
(7)	100	100	100	100
(8)	100	100	100	100
(9)	100	100	100	100
(10)	100	100	100	100
(11)	100	100	100	100
(12)	100	100	100	100
(13)	100	100	100	100
(14)	100	100	100	100
(15)	100	100	100	100
(16)	100	100	100	100
(17)	100	100	100	100
(18)	100	100	100	100
(19)	100	100	100	100
(20)	100	100	100	100
(21)	100	100	100	100
(22)	100	100	100	100
(23)	100	100	100	100
(24)	100	100	100	100
(25)	100	100	100	100
(26)	100	100	100	100
(27)	100	100	100	100
(28)	100	100	100	100
(29)	100	100	100	100
(30)	100	100	100	100
(31)	100	100	100	100
(32)	100	100	100	100
(33)	100	100	100	100
(34)	100	100	100	100
(35)	100	100	100	100
(36)	100	100	100	100
(37)	100	100	100	100
(38)	100	100	100	100
(39)	100	100	100	100
(40)	100	100	100	100
(41)	100	100	100	100
(42)	100	100	100	100
(43)	100	100	100	100
(44)	100	100	100	100
(45)	100	100	100	100
(46)	100	100	100	100
(47)	100	100	100	100
(48)	100	100	100	100
(49)	100	100	100	100
(50)	100	100	100	100
(51)	100	100	100	100
(52)	100	100	100	100
(53)	100	100	100	100
(54)	100	100	100	100
(55)	100	100	100	100
(56)	100	100	100	100
(57)	100	100	100	100
(58)	100	100	100	100
(59)	100	100	100	100
(60)	100	100	100	100
(61)	100	100	100	100
(62)	100	100	100	100
(63)	100	100	100	100
(64)	100	100	100	100
(65)	100	100	100	100
(66)	100	100	100	100
(67)	100	100	100	100
(68)	100	100	100	100
(69)	100	100	100	100
(70)	100	100	100	100
(71)	100	100	100	100
(72)	100	100	100	100
(73)	100	100	100	100
(74)	100	100	100	100
(75)	100	100	100	100
(76)	100	100	100	100
(77)	100	100	100	100
(78)	100	100	100	100
(79)	100	100	100	100
(80)	100	100	100	100
(81)	100	100	100	100
(82)	100	100	100	100
(83)	100	100	100	100
(84)	100	100	100	100
(85)	100	100	100	100
(86)	100	100	100	100
(87)	100	100	100	100
(88)	100	100	100	100
(89)	100	100	100	100
(90)	100	100	100	100
(91)	100	100	100	100
(92)	100	100	100	100
(93)	100	100	100	100
(94)	100	100	100	100
(95)	100	100	100	100
(96)	100	100	100	100
(97)	100	100	100	100
(98)	100	100	100	100
(99)	100	100	100	100
(100)	100	100	100	100

Criterion and Terman 1-2-9-10
Hoke 1-4 - Hoke 2

Products Moments

	69	140	/ 7	/21	49	441	147	
	46	71	-16	-48	256	2304	768	
	77	152	/15	/33	225	1089	495	
	74	115	/12	- 4	144	16		48
	55	105	- 7	-14	49	196	98	
	78	137	/16	/18	256	324	288	
	61	141	- 1	/22	1	484		22
	63	114	/ 1	- 5	1	25		5
	48	95	-14	-24	196	576	336	
	50	91	-12	-28	144	784	336	
	53	132	- 9	/13	81	169		117
	67	129	/ 5	/10	25	100	50	
	57	98	- 5	-21	25	441	105	
	63	117	/ 1	- 2	1	4		2
	60	137	- 2	/18	4	324		36
	69	136	/ 7	/17	49	289	119	
	61	140	- 1	/21	1	441		21
	66	114	/ 4	- 5	16	25		20
	74	142	/12	/23	144	529	276	
	41	71	-21	-48	441	2304	1008	
	64	126	/ 2	/ 7	4	49	14	
	1296	2503			2112	10914	/4040	-271
	62	119			100.52	519.71	- 271	
					10.02	22.80	/3769	
CORRELATION			/3769					
			21x10.02x22.80	=	/.786			

Terman 1-2-8-9-10
Hoke 1-4 -Hoke 2

Battery Content, Deviations and Rank

	Terman 1-2-8-9-10 1-4	-Hoke 2	Terman 1-2-8-9-10 1-4 -Hoke 2	Deviation	Rank
Algebra	224	68	156	✓27	(3)
Geometry	155	78	77	-52	(20)
Trigonometry	221	57	164	✓35	(1)
Physics	201	78	123	-6	(13½)
Chemistry	187	72	115	-14	(15)
English	203	56	147	✓18	(6)
History	212	57	155	✓26	(4)
Political Science	176	62	114	-15	(16)
Economics	169	66	103	-26	(18)
Statistics	171	70	101	-28	(19)
Psychology	204	62	142	✓13	(9)
Education	193	56	137	✓8	(10)
Philosophy	181	75	106	-23	(17)
Latin	197	74	123	-6	(13½)
Greek	200	57	143	✓14	(8)
Modern Languages	205	61	144	✓15	(7)
Art	228	74	154	✓25	(5)
Music	192	62	130	✓1	(12)
Physical Education	219	59	160	✓31	(2)
Health	139	68	71	-58	(21)
Unlabeled	194	58	136	✓7	(11)
	4071	1370	2701		
			129		

Table showing the results of the

No.	1911			Total
	Jan.	Feb.	Mar.	
1	100	100	100	300
2	100	100	100	300
3	100	100	100	300
4	100	100	100	300
5	100	100	100	300
6	100	100	100	300
7	100	100	100	300
8	100	100	100	300
9	100	100	100	300
10	100	100	100	300
11	100	100	100	300
12	100	100	100	300
13	100	100	100	300
14	100	100	100	300
15	100	100	100	300
16	100	100	100	300
17	100	100	100	300
18	100	100	100	300
19	100	100	100	300
20	100	100	100	300
21	100	100	100	300
22	100	100	100	300
23	100	100	100	300
24	100	100	100	300
25	100	100	100	300
26	100	100	100	300
27	100	100	100	300
28	100	100	100	300
29	100	100	100	300
30	100	100	100	300
31	100	100	100	300
32	100	100	100	300
33	100	100	100	300
34	100	100	100	300
35	100	100	100	300
36	100	100	100	300
37	100	100	100	300
38	100	100	100	300
39	100	100	100	300
40	100	100	100	300
41	100	100	100	300
42	100	100	100	300
43	100	100	100	300
44	100	100	100	300
45	100	100	100	300
46	100	100	100	300
47	100	100	100	300
48	100	100	100	300
49	100	100	100	300
50	100	100	100	300
51	100	100	100	300
52	100	100	100	300
53	100	100	100	300
54	100	100	100	300
55	100	100	100	300
56	100	100	100	300
57	100	100	100	300
58	100	100	100	300
59	100	100	100	300
60	100	100	100	300
61	100	100	100	300
62	100	100	100	300
63	100	100	100	300
64	100	100	100	300
65	100	100	100	300
66	100	100	100	300
67	100	100	100	300
68	100	100	100	300
69	100	100	100	300
70	100	100	100	300
71	100	100	100	300
72	100	100	100	300
73	100	100	100	300
74	100	100	100	300
75	100	100	100	300
76	100	100	100	300
77	100	100	100	300
78	100	100	100	300
79	100	100	100	300
80	100	100	100	300
81	100	100	100	300
82	100	100	100	300
83	100	100	100	300
84	100	100	100	300
85	100	100	100	300
86	100	100	100	300
87	100	100	100	300
88	100	100	100	300
89	100	100	100	300
90	100	100	100	300
91	100	100	100	300
92	100	100	100	300
93	100	100	100	300
94	100	100	100	300
95	100	100	100	300
96	100	100	100	300
97	100	100	100	300
98	100	100	100	300
99	100	100	100	300
100	100	100	100	300

Criterion and Terman 1-2-8-9-10
Hoke 1-4 - Hoke 2

Products Moments

	69	156	/ 7	/ 27	49	729	189	
	46	77	-16	-52	256	2704	832	
	77	164	/ 15	/ 35	225	1225	525	
	74	123	/ 12	- 6	144	36		72
	55	115	- 7	-14	49	196	98	
	78	147	/ 16	/ 18	256	324	288	
	61	155	- 1	/ 26	1	676		26
	63	114	/ 1	-15	1	225		15
	48	103	-14	-26	196	676	364	
	50	101	-12	-28	144	784	336	
	53	142	- 9	/ 13	81	169		57
	67	137	/ 5	/ 8	25	64	40	
	57	106	- 5	-23	25	529	115	
	63	123	/ 1	- 6	1	36		6
	60	143	- 2	/ 14	4	196		28
	69	144	/ 7	/ 15	49	225	105	
	61	154	- 1	/ 25	1	625		25
	66	130	/ 4	/ 1	16	1	4	
	74	160	/ 12	/ 31	144	961	372	
	41	71	-21	-58	441	3364	1218	
	64	136	/ 2	/ 7	4	49	14	
	1296	2701			2112	13794	/ 4500	-229
	62	129			100.52	656.90	- 229	
					10.02	25.62	/ 4271	
CORRELATION			/ 4271					
	21x10.02	x25.62						= / .792

APPENDIX D

Correlations of Tests with the Criterion
by Rank Differences Method

1870

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Summary of test results						
Test	Method	Year	Time	Temp	Dist	Time
1.						
1000	20	15	17	$6\frac{1}{2}$	$\nearrow 1$	1
1000	20	12	17	17	- 3	9
1000	20	17	17	$1\frac{1}{2}$	- $\frac{1}{2}$	$\frac{1}{4}$
1000	20	15	17	$6\frac{1}{2}$	$\nearrow 3$	9
1000	20	13	14	14	- 2	4
1000	20	15	17	$6\frac{1}{2}$	$\nearrow 5\frac{1}{2}$	$30\frac{1}{4}$
1000	20	17	17	$1\frac{1}{2}$	-11	121
1000	20	15	17	$6\frac{1}{2}$	- 4	16
1000	20	12	17	17	- 2	4
1000	20	11	17	19	$\nearrow 1$	1
1000	20	16	17	$3\frac{1}{2}$	$-14\frac{1}{2}$	$214\frac{1}{4}$
1000	20	10	17	$20\frac{1}{2}$	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
1000	20	16	17	$3\frac{1}{2}$	$-12\frac{1}{2}$	$156\frac{1}{4}$
1000	20	12	17	17	$\nearrow 7$	49
1000	20	13	14	14	0	0
1000	20	14	17	$10\frac{1}{2}$	$\nearrow 5$	25
1000	20	14	17	$10\frac{1}{2}$	- 2	4
1000	20	14	17	$10\frac{1}{2}$	$\nearrow 2\frac{1}{2}$	$6\frac{1}{4}$
1000	20	13	14	14	$\nearrow 11$	121
1000	20	10	17	$20\frac{1}{2}$	- $\frac{1}{2}$	$\frac{1}{4}$
1000	20	14	17	$10\frac{1}{2}$	- $1\frac{1}{2}$	$\frac{1}{4}$
						<hr/> 784

CORRELATION $1 - \frac{6 \times 784}{21(21^2 - 1)} = .52$

1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9
10	10	10	10	10	10
11	11	11	11	11	11
12	12	12	12	12	12
13	13	13	13	13	13
14	14	14	14	14	14
15	15	15	15	15	15
16	16	16	16	16	16
17	17	17	17	17	17
18	18	18	18	18	18
19	19	19	19	19	19
20	20	20	20	20	20
21	21	21	21	21	21
22	22	22	22	22	22
23	23	23	23	23	23
24	24	24	24	24	24
25	25	25	25	25	25
26	26	26	26	26	26
27	27	27	27	27	27
28	28	28	28	28	28
29	29	29	29	29	29
30	30	30	30	30	30
31	31	31	31	31	31
32	32	32	32	32	32
33	33	33	33	33	33
34	34	34	34	34	34
35	35	35	35	35	35
36	36	36	36	36	36
37	37	37	37	37	37
38	38	38	38	38	38
39	39	39	39	39	39
40	40	40	40	40	40
41	41	41	41	41	41
42	42	42	42	42	42
43	43	43	43	43	43
44	44	44	44	44	44
45	45	45	45	45	45
46	46	46	46	46	46
47	47	47	47	47	47
48	48	48	48	48	48
49	49	49	49	49	49
50	50	50	50	50	50
51	51	51	51	51	51
52	52	52	52	52	52
53	53	53	53	53	53
54	54	54	54	54	54
55	55	55	55	55	55
56	56	56	56	56	56
57	57	57	57	57	57
58	58	58	58	58	58
59	59	59	59	59	59
60	60	60	60	60	60
61	61	61	61	61	61
62	62	62	62	62	62
63	63	63	63	63	63
64	64	64	64	64	64
65	65	65	65	65	65
66	66	66	66	66	66
67	67	67	67	67	67
68	68	68	68	68	68
69	69	69	69	69	69
70	70	70	70	70	70
71	71	71	71	71	71
72	72	72	72	72	72
73	73	73	73	73	73
74	74	74	74	74	74
75	75	75	75	75	75
76	76	76	76	76	76
77	77	77	77	77	77
78	78	78	78	78	78
79	79	79	79	79	79
80	80	80	80	80	80
81	81	81	81	81	81
82	82	82	82	82	82
83	83	83	83	83	83
84	84	84	84	84	84
85	85	85	85	85	85
86	86	86	86	86	86
87	87	87	87	87	87
88	88	88	88	88	88
89	89	89	89	89	89
90	90	90	90	90	90
91	91	91	91	91	91
92	92	92	92	92	92
93	93	93	93	93	93
94	94	94	94	94	94
95	95	95	95	95	95
96	96	96	96	96	96
97	97	97	97	97	97
98	98	98	98	98	98
99	99	99	99	99	99
100	100	100	100	100	100

2.						
Aluminum	22	22	4	- 1 $\frac{1}{2}$	2 $\frac{1}{4}$	
Antimony	10	21	21	/ 1	1	
Asphaltum	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 9 $\frac{1}{2}$	90 $\frac{1}{4}$	
Barium	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 8	64	
Bismuth	16	19	19	/ 3	9	
Copper	18	16 $\frac{1}{2}$	16 $\frac{1}{2}$	/ 15 $\frac{1}{2}$	240 $\frac{1}{4}$	
Gold	18	16 $\frac{1}{2}$	16 $\frac{1}{2}$	/ 4	16	
Iron	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 1	1	
Lead	22	4	4	- 15	225	
Mercury	16	19	19	/ 1	1	
Nickel	22	4	4	- 13	169	
Platinum	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 4 $\frac{1}{2}$	20 $\frac{1}{4}$	
Potassium	22	4	4	- 11	121	
Silver	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 1	1	
Sulfur	22	4	4	- 10	100	
Tin	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 6	36	
Zinc	22	4	4	- 8 $\frac{1}{2}$	72 $\frac{1}{4}$	
	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 3 $\frac{1}{2}$	12 $\frac{1}{4}$	
	20	11 $\frac{1}{2}$	11 $\frac{1}{2}$	/ 8	64	
	16	19	19	- 2	4	
	22	4	4	- 5	25	
					1274 $\frac{1}{4}$	

CORRELATION

$$1 - \frac{6 \times 1274\frac{1}{4}}{21(21^2 - 1)} = .17$$

	3			
	28	$1\frac{1}{2}$	- 4	16
	0	21	/ 1	1
	26	$3\frac{1}{2}$	/ $1\frac{1}{2}$	$2\frac{1}{4}$
	20	$11\frac{1}{2}$	/ 8	64
	4	19	/ 3	9
	24	7	/ 6	36
	24	7	- $5\frac{1}{2}$	$30\frac{1}{4}$
	18	14	/ $3\frac{1}{2}$	$12\frac{1}{4}$
	20	$11\frac{1}{2}$	- $7\frac{1}{2}$	$56\frac{1}{4}$
	4	19	/ 1	1
	20	$11\frac{1}{2}$	- $5\frac{1}{2}$	$30\frac{1}{4}$
	4	19	/ 12	144
	26	$3\frac{1}{2}$	- $11\frac{1}{2}$	$132\frac{1}{4}$
	28	$1\frac{1}{2}$	- 9	81
	20	$11\frac{1}{2}$	- $2\frac{1}{2}$	$6\frac{1}{4}$
	16	15	/ $9\frac{1}{2}$	$90\frac{1}{4}$
	24	7	- $5\frac{1}{2}$	$30\frac{1}{4}$
	8	17	/ 9	81
	24	7	/ $3\frac{1}{2}$	$12\frac{1}{4}$
	12	16	- 5	25
	24	7	- 2	4
				<hr/>
				$864\frac{1}{2}$

CORRELATION 1 - $\frac{6 \times 864\frac{1}{2}}{21(21^2 - 1)} = .44$

100	100	100	100	100
90	90	90	90	90
80	80	80	80	80
70	70	70	70	70
60	60	60	60	60
50	50	50	50	50
40	40	40	40	40
30	30	30	30	30
20	20	20	20	20
10	10	10	10	10
0	0	0	0	0
10	10	10	10	10
20	20	20	20	20
30	30	30	30	30
40	40	40	40	40
50	50	50	50	50
60	60	60	60	60
70	70	70	70	70
80	80	80	80	80
90	90	90	90	90
100	100	100	100	100

100 = 100.00 - 0.00 = 100.00

	4			
	19	$1\frac{1}{2}$	- 4	16
	3	21	/ 1	1
	12	12	/ 10	100
	6	20	/ $16\frac{1}{2}$	$272\frac{1}{4}$
	10	$17\frac{1}{2}$	/ $1\frac{1}{2}$	$2\frac{1}{4}$
	16	$4\frac{1}{2}$	/ $3\frac{1}{2}$	$12\frac{1}{4}$
	16	$4\frac{1}{2}$	- 8	64
	10	$17\frac{1}{2}$	/ 7	49
	14	9	- 10	100
	8	19	/ 1	1
	19	$1\frac{1}{2}$	- $15\frac{1}{2}$	$240\frac{1}{4}$
	11	$14\frac{1}{2}$	/ $7\frac{1}{2}$	$56\frac{1}{4}$
	15	$6\frac{1}{2}$	- $8\frac{1}{2}$	$72\frac{1}{4}$
	14	9	- $1\frac{1}{2}$	$2\frac{1}{4}$
	11	$14\frac{1}{2}$	/ $\frac{1}{2}$	$\frac{1}{4}$
	14	9	/ $3\frac{1}{2}$	$12\frac{1}{4}$
	15	$6\frac{1}{2}$	- 6	36
	11	$14\frac{1}{2}$	/ $6\frac{1}{2}$	$42\frac{1}{4}$
	18	3	- $\frac{1}{2}$	$\frac{1}{4}$
	13	11	- 10	100
	11	$14\frac{1}{2}$	/ $5\frac{1}{2}$	$30\frac{1}{4}$
				1210

CORRELATION 1 - $\frac{6 \times 1210}{21(21^2 - 1)} = .21$

Station	Category	Dist.	Dist.	Dist.	Dist.	Dist.
		5				
10000	10	12	10	10	$\nearrow 4\frac{1}{2}$	$20\frac{1}{4}$
10000	10	4	10	$20\frac{1}{2}$	$\nearrow \frac{1}{2}$	$\frac{1}{4}$
10000	10	16	10	4	$\nearrow 2$	4
10000	10	14	10	7	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
10000	10	4	10	$20\frac{1}{2}$	$\nearrow 4\frac{1}{2}$	$20\frac{1}{4}$
10000	10	6	10	17	$\nearrow 16$	256
10000	10	16	10	4	$- 8\frac{1}{2}$	$72\frac{1}{4}$
10000	10	18	10	$1\frac{1}{2}$	$- 9$	81
10000	10	6	10	17	$- 2$	4
10000	10	18	10	$11\frac{1}{2}$	$-16\frac{1}{2}$	$272\frac{1}{4}$
10000	10	14	10	7	-10	100
10000	10	12	10	10	$\nearrow 3$	9
10000	10	14	10	7	$- 8$	64
10000	10	8	10	$13\frac{1}{2}$	$\nearrow 3$	9
10000	10	12	10	10	$- 4$	16
10000	10	6	10	17	$\nearrow 11\frac{1}{2}$	$132\frac{1}{4}$
10000	10	6	10	17	$\nearrow 4\frac{1}{2}$	$20\frac{1}{4}$
10000	10	6	10	17	$\nearrow 9$	81
10000	10	8	10	$13\frac{1}{2}$	$\nearrow 10$	100
10000	10	10	10	12	$- 9$	81
10000	10	16	10	4	$- 5$	<u>25</u>
						1380

CORRELATION 1 - $\frac{6 \times 1380}{21(21^2 - 1)} = \nearrow .10$

MEASUREMENTS OF DIST. TYPICAL SYSTEM

TYPE	Distances	6	20	15	DIFF.	DIFF. ²
Algebra	10	20	15	2	- 3 $\frac{1}{2}$	12 $\frac{1}{4}$
Arithmetic	40	8	10	15	- 5	25
Calculus	77	16	10	5	/ 3	9
Geometry	71	12	10	11	/ 7 $\frac{1}{2}$	56 $\frac{1}{4}$
Statistics	86	14	10	7 $\frac{1}{2}$	- 8 $\frac{1}{2}$	72 $\frac{1}{4}$
Trigonometry	98	22	1	1	0	0
Geometry	81	18	10	3 $\frac{1}{2}$	- 9	81
Calculus	58	12	10	11	/ $\frac{1}{2}$	$\frac{1}{4}$
Trigonometry	10	6	10	16 $\frac{1}{2}$	- 2 $\frac{1}{2}$	6 $\frac{1}{4}$
Calculus	50	6	10	16 $\frac{1}{2}$	- 1 $\frac{1}{2}$	2 $\frac{1}{4}$
Geometry	87	18	10	3 $\frac{1}{2}$	-13 $\frac{1}{2}$	182 $\frac{1}{4}$
Trigonometry	80	0	10	20 $\frac{1}{2}$	/ 3 $\frac{1}{2}$	12 $\frac{1}{4}$
Calculus	20	14	10	7 $\frac{1}{2}$	- 7 $\frac{1}{2}$	56 $\frac{1}{4}$
Statistics	87	10	10	13 $\frac{1}{2}$	/ 3	9
Trigonometry	80	10	10	13 $\frac{1}{2}$	- $\frac{1}{2}$	$\frac{1}{4}$
Calculus	80	4	10	18	/12 $\frac{1}{2}$	156 $\frac{1}{4}$
Trigonometry	81	14	10	7 $\frac{1}{2}$	- 5	25
Statistics	80	2	10	19	/11	121
Trigonometry	71	14	10	7 $\frac{1}{2}$	/ 4	16
Calculus	12	0	10	20 $\frac{1}{2}$	- $\frac{1}{2}$	$\frac{1}{4}$
Trigonometry	10	12	10	11	/ 2	4

847

CORRELATION 1 - $\frac{6 \times 847}{21(21^2 - 1)} = .45$

Year	Month	Day	Time	Place	Remarks
1914	Jan	1	10	10	10
1914	Jan	2	10	10	10
1914	Jan	3	10	10	10
1914	Jan	4	10	10	10
1914	Jan	5	10	10	10
1914	Jan	6	10	10	10
1914	Jan	7	10	10	10
1914	Jan	8	10	10	10
1914	Jan	9	10	10	10
1914	Jan	10	10	10	10
1914	Jan	11	10	10	10
1914	Jan	12	10	10	10
1914	Jan	13	10	10	10
1914	Jan	14	10	10	10
1914	Jan	15	10	10	10
1914	Jan	16	10	10	10
1914	Jan	17	10	10	10
1914	Jan	18	10	10	10
1914	Jan	19	10	10	10
1914	Jan	20	10	10	10
1914	Jan	21	10	10	10
1914	Jan	22	10	10	10
1914	Jan	23	10	10	10
1914	Jan	24	10	10	10
1914	Jan	25	10	10	10
1914	Jan	26	10	10	10
1914	Jan	27	10	10	10
1914	Jan	28	10	10	10
1914	Jan	29	10	10	10
1914	Jan	30	10	10	10
1914	Jan	31	10	10	10

1914

		7			
		17	$8\frac{1}{2}$	$\nearrow 3$	9
		7	21	$\nearrow 1$	1
		16	$12\frac{1}{2}$	$\nearrow 10\frac{1}{2}$	$110\frac{1}{4}$
		18	$4\frac{1}{2}$	$\nearrow 1$	1
		17	$8\frac{1}{2}$	$- 7\frac{1}{2}$	$56\frac{1}{4}$
		18	$4\frac{1}{2}$	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
		20	1	$- 11\frac{1}{2}$	$132\frac{1}{4}$
		15	$16\frac{1}{2}$	$\nearrow 6$	36
		16	$12\frac{1}{2}$	$- 6\frac{1}{2}$	$42\frac{1}{4}$
		8	20	$\nearrow 2$	4
		18	$4\frac{1}{2}$	$- 12\frac{1}{2}$	$156\frac{1}{4}$
		16	$12\frac{1}{2}$	$\nearrow 5\frac{1}{2}$	$30\frac{1}{4}$
		14	19	$\nearrow 4$	16
		16	$12\frac{1}{2}$	$\nearrow 2$	4
		15	$16\frac{1}{2}$	$\nearrow 2\frac{1}{2}$	$6\frac{1}{4}$
		17	$8\frac{1}{2}$	$\nearrow 3$	9
		15	$16\frac{1}{2}$	$\nearrow 4$	16
		15	$16\frac{1}{2}$	$\nearrow 8\frac{1}{2}$	$72\frac{1}{4}$
		19	2	$- 1\frac{1}{2}$	$2\frac{1}{4}$
		18	$4\frac{1}{2}$	$- 16\frac{1}{2}$	$172\frac{1}{4}$
		17	$8\frac{1}{2}$	$- \frac{1}{2}$	$\frac{1}{4}$
					<hr/>
					889

CORRELATION 1 - $\frac{6 \times 889}{21(21^2 - 1)} = \nearrow .42$

1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100

100 - 100 = 0

		8				
...	...	16	...	$2\frac{1}{2}$	- 3	9
...	...	6	...	18	- 2	4
...	...	12	...	6	/ 4	16
...	...	8	...	14	/ $12\frac{1}{2}$	$156\frac{1}{4}$
...	...	10	...	9	- 7	49
...	...	10	...	9	/ 8	64
...	...	14	...	$4\frac{1}{2}$	- 8	64
...	...	0	...	$20\frac{1}{2}$	/ 10	100
...	...	8	...	14	- 5	25
...	...	10	...	9	- 9	81
...	...	10	...	9	- 8	64
...	...	8	...	14	/ 7	49
...	...	8	...	14	- 1	1
...	...	6	...	18	/ $7\frac{1}{2}$	$56\frac{1}{4}$
...	...	6	...	18	/ 4	16
...	...	8	...	14	/ $8\frac{1}{2}$	$72\frac{1}{4}$
...	...	14	...	$4\frac{1}{2}$	- 8	64
...	...	16	...	$2\frac{1}{2}$	- $5\frac{1}{2}$	$30\frac{1}{4}$
...	...	18	...	1	- $2\frac{1}{2}$	$6\frac{1}{4}$
...	...	0	...	$20\frac{1}{2}$	- $\frac{1}{2}$	$\frac{1}{4}$
...	...	10	...	9	0	0
						<hr/>
						$927\frac{1}{2}$

CORRELATION $1 - \frac{6 \times 927\frac{1}{2}}{21(21^2 - 1)} = / .40$

1	2 -	24	21
2	2 -	26	22
3	2 -	28	23
4	2 -	30	24
5	2 -	32	25
6	2 -	34	26
7	2 -	36	27
8	2 -	38	28
9	2 -	40	29
10	2 -	42	30
11	2 -	44	31
12	2 -	46	32
13	2 -	48	33
14	2 -	50	34
15	2 -	52	35
16	2 -	54	36
17	2 -	56	37
18	2 -	58	38
19	2 -	60	39
20	2 -	62	40
21	2 -	64	41
22	2 -	66	42
23	2 -	68	43
24	2 -	70	44
25	2 -	72	45
26	2 -	74	46
27	2 -	76	47
28	2 -	78	48
29	2 -	80	49
30	2 -	82	50
31	2 -	84	51
32	2 -	86	52
33	2 -	88	53
34	2 -	90	54
35	2 -	92	55
36	2 -	94	56
37	2 -	96	57
38	2 -	98	58
39	2 -	100	59
40	2 -	102	60
41	2 -	104	61
42	2 -	106	62
43	2 -	108	63
44	2 -	110	64
45	2 -	112	65
46	2 -	114	66
47	2 -	116	67
48	2 -	118	68
49	2 -	120	69
50	2 -	122	70
51	2 -	124	71
52	2 -	126	72
53	2 -	128	73
54	2 -	130	74
55	2 -	132	75
56	2 -	134	76
57	2 -	136	77
58	2 -	138	78
59	2 -	140	79
60	2 -	142	80
61	2 -	144	81
62	2 -	146	82
63	2 -	148	83
64	2 -	150	84
65	2 -	152	85
66	2 -	154	86
67	2 -	156	87
68	2 -	158	88
69	2 -	160	89
70	2 -	162	90
71	2 -	164	91
72	2 -	166	92
73	2 -	168	93
74	2 -	170	94
75	2 -	172	95
76	2 -	174	96
77	2 -	176	97
78	2 -	178	98
79	2 -	180	99
80	2 -	182	100
81	2 -	184	101
82	2 -	186	102
83	2 -	188	103
84	2 -	190	104
85	2 -	192	105
86	2 -	194	106
87	2 -	196	107
88	2 -	198	108
89	2 -	200	109
90	2 -	202	110
91	2 -	204	111
92	2 -	206	112
93	2 -	208	113
94	2 -	210	114
95	2 -	212	115
96	2 -	214	116
97	2 -	216	117
98	2 -	218	118
99	2 -	220	119
100	2 -	222	120

COPIES OF THE ABOVE - 100
 100 - 100

STATION	DATE	TIME	TYPE	TIME	DATE	TIME
		9				
ADAMS	14	14	6 $\frac{1}{2}$	/ 1	1	
ADAMS	11	19	- 1	1		
ADAMS	14	6 $\frac{1}{2}$	/ 4 $\frac{1}{2}$	20 $\frac{1}{4}$		
ADAMS	10	21	/ 17 $\frac{1}{2}$	306 $\frac{1}{4}$		
ADAMS	11	19	/ 3	9		
ADAMS	15	3	/ 2	4		
ADAMS	15	3	- 9 $\frac{1}{2}$	90 $\frac{1}{4}$		
ADAMS	13	12	/ 1 $\frac{1}{2}$	2 $\frac{1}{4}$		
ADAMS	14	6 $\frac{1}{2}$	- 12 $\frac{1}{2}$	156 $\frac{1}{4}$		
ADAMS	12	16 $\frac{1}{2}$	- 1 $\frac{1}{2}$	2 $\frac{1}{4}$		
ADAMS	14	6 $\frac{1}{2}$	- 10 $\frac{1}{2}$	110 $\frac{1}{4}$		
ADAMS	15	3	- 4	16		
ADAMS	13	12	- 3	9		
ADAMS	12	16 $\frac{1}{2}$	/ 6	36		
ADAMS	11	19	/ 5	25		
ADAMS	13	12	/ 6 $\frac{1}{2}$	42 $\frac{1}{4}$		
ADAMS	13	12	- $\frac{1}{2}$	$\frac{1}{4}$		
ADAMS	13	12	/ 4	16		
ADAMS	16	1	- 2 $\frac{1}{2}$	6 $\frac{1}{4}$		
ADAMS	13	12	- 9	81		
ADAMS	13	12	/ 3	9		
				943 $\frac{1}{2}$		

CORRELATION $1 - \frac{6 \times 943\frac{1}{2}}{21(21^2 - 1)} = / .39$

	10			
	16	15	$\nearrow 9\frac{1}{2}$	$90\frac{1}{4}$
	6	21	$\nearrow 1$	1
	20	$6\frac{1}{2}$	$\nearrow 4\frac{1}{2}$	$20\frac{1}{4}$
	22	3	- $\frac{1}{2}$	$\frac{1}{4}$
	14	$17\frac{1}{2}$	$\nearrow 1\frac{1}{2}$	$2\frac{1}{4}$
	12	20	$\nearrow 19$	361
	18	$11\frac{1}{2}$	- 1	1
	20	$6\frac{1}{2}$	- 4	16
	14	$17\frac{1}{2}$	- $1\frac{1}{2}$	$2\frac{1}{4}$
	20	$6\frac{1}{2}$	- $11\frac{1}{2}$	$132\frac{1}{4}$
	18	$11\frac{1}{2}$	- $15\frac{1}{2}$	$30\frac{1}{4}$
	18	$11\frac{1}{2}$	$\nearrow 4\frac{1}{2}$	$20\frac{1}{4}$
	14	$17\frac{1}{2}$	$\nearrow 2\frac{1}{2}$	$6\frac{1}{4}$
	18	$11\frac{1}{2}$	$\nearrow 1$	1
	20	$6\frac{1}{2}$	- $7\frac{1}{2}$	$56\frac{1}{4}$
	24	1	- $4\frac{1}{2}$	$20\frac{1}{4}$
	18	$11\frac{1}{2}$	- 1	1
	18	$11\frac{1}{2}$	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
	22	3	- $\frac{1}{2}$	$\frac{1}{4}$
	22	3	- 18	324
	14	$17\frac{1}{2}$	$\nearrow 8\frac{1}{2}$	$72\frac{1}{4}$
				<u>$1170\frac{1}{2}$</u>

CORRELATION 1- $\frac{6 \times 1170\frac{1}{2}}{21(21^2 - 1)} = \nearrow .24$

Hoke 1						
Year	Centuries	Time	Days	Year	Time	Days
1900	30	67	11	13 $\frac{1}{2}$	✓ 8	64
1901	35	80	12	1	-19	361
1902	30	68	7	11	✓ 9	81
1903	10	68	10	11	✓ 7 $\frac{1}{2}$	56 $\frac{1}{4}$
1904	15	71	17	6	-10	100
1905	25	77	2	2 $\frac{1}{2}$	✓ 1 $\frac{1}{2}$	2 $\frac{1}{4}$
1906	31	66	16	16	✓ 3 $\frac{1}{2}$	12 $\frac{1}{4}$
1907	38	66	16	16	✓ 5 $\frac{1}{2}$	30 $\frac{1}{4}$
1908	15	69	18	8 $\frac{1}{2}$	-10 $\frac{1}{2}$	110 $\frac{1}{4}$
1909	30	66	16	- 2		4
1910	32	68	11	- 6		36
1911	39	70	7	0		0
1912	37	64	19	✓ 4		16
1913	35	67	13 $\frac{1}{2}$	✓ 2		4
1914	30	76	4	-10		100
1915	38	74	5	- $\frac{1}{2}$		$\frac{1}{4}$
1916	41	77	2 $\frac{1}{2}$	-10		100
1917	39	65	18	✓10		100
1918	44	50	20	✓16 $\frac{1}{2}$		272 $\frac{1}{4}$
1919	35	48	21	0		0
1920	30	69	8 $\frac{1}{2}$	- $\frac{1}{2}$		$\frac{1}{4}$
						1450

CORRELATION 1 - $\frac{6 \times 1450}{21(21^2 - 1)} = \checkmark .06$

Year	Month	Day	Time	Location	Remarks
1900	Jan	1	10	...	...
1900	Jan	2	10	...	...
1900	Jan	3	10	...	...
1900	Jan	4	10	...	...
1900	Jan	5	10	...	...
1900	Jan	6	10	...	...
1900	Jan	7	10	...	...
1900	Jan	8	10	...	...
1900	Jan	9	10	...	...
1900	Jan	10	10	...	...
1900	Jan	11	10	...	...
1900	Jan	12	10	...	...
1900	Jan	13	10	...	...
1900	Jan	14	10	...	...
1900	Jan	15	10	...	...
1900	Jan	16	10	...	...
1900	Jan	17	10	...	...
1900	Jan	18	10	...	...
1900	Jan	19	10	...	...
1900	Jan	20	10	...	...
1900	Jan	21	10	...	...
1900	Jan	22	10	...	...
1900	Jan	23	10	...	...
1900	Jan	24	10	...	...
1900	Jan	25	10	...	...
1900	Jan	26	10	...	...
1900	Jan	27	10	...	...
1900	Jan	28	10	...	...
1900	Jan	29	10	...	...
1900	Jan	30	10	...	...
1900	Jan	31	10	...	...

1900 Jan 31 10:00 AM

	Hoke 2			
	68	$8\frac{1}{2}$	$\nearrow 3$	9
	78	$1\frac{1}{2}$	$-18\frac{1}{2}$	$342\frac{1}{4}$
	57	18	$\nearrow 16$	256
	78	$1\frac{1}{2}$	- 2	4
	72	6	-10	100
	56	$20\frac{1}{2}$	$\nearrow 19\frac{1}{2}$	$380\frac{1}{4}$
	57	$18\frac{1}{2}$	$\nearrow 6$	36
	62	12	$\nearrow 1\frac{1}{2}$	$2\frac{1}{4}$
	66	10	- 9	81
	70	7	-11	121
	62	12	- 5	25
	56	$20\frac{1}{2}$	$\nearrow 12\frac{1}{2}$	$156\frac{1}{4}$
	75	3	-12	144
	74	$4\frac{1}{2}$	- 6	36
	57	18	$\nearrow 4$	16
	61	14	$\nearrow 8\frac{1}{2}$	$72\frac{1}{4}$
	74	$4\frac{1}{2}$	- 8	64
	62	12	$\nearrow 4$	16
	59	15	$\nearrow 2\frac{1}{2}$	$6\frac{1}{4}$
	68	$8\frac{1}{2}$	$-12\frac{1}{2}$	$156\frac{1}{4}$
	58	16	$\nearrow 7$	<u>49</u>

2072 $\frac{3}{4}$

CORRELATION 1 - $\frac{6 \times 2072\frac{3}{4}}{21(21^2 - 1)} = .35$

Year	Area	Population	Area	Population
1900	1000	100	100	100
1905	1000	100	100	100
1910	1000	100	100	100
1915	1000	100	100	100
1920	1000	100	100	100
1925	1000	100	100	100
1930	1000	100	100	100
1935	1000	100	100	100
1940	1000	100	100	100
1945	1000	100	100	100
1950	1000	100	100	100
1955	1000	100	100	100
1960	1000	100	100	100
1965	1000	100	100	100
1970	1000	100	100	100
1975	1000	100	100	100
1980	1000	100	100	100
1985	1000	100	100	100
1990	1000	100	100	100
1995	1000	100	100	100
2000	1000	100	100	100
2005	1000	100	100	100
2010	1000	100	100	100
2015	1000	100	100	100
2020	1000	100	100	100
2025	1000	100	100	100
2030	1000	100	100	100
2035	1000	100	100	100
2040	1000	100	100	100
2045	1000	100	100	100
2050	1000	100	100	100
2055	1000	100	100	100
2060	1000	100	100	100
2065	1000	100	100	100
2070	1000	100	100	100
2075	1000	100	100	100
2080	1000	100	100	100
2085	1000	100	100	100
2090	1000	100	100	100
2095	1000	100	100	100
2100	1000	100	100	100

1900-1999

1900-1999

1900-1999

Descriptive Statistics

	Definition	Rank	Order	Rank	Order	Rank
		Hoke 3				
...	...	58	...	$6\frac{1}{2}$	$\nearrow 1$	1
...	...	30	...	$19\frac{1}{2}$	$- \frac{1}{2}$	$\frac{1}{4}$
...	...	60	...	5	$\nearrow 3$	9
...	...	35	...	$16\frac{1}{2}$	$\nearrow 13$	169
...	...	30	...	$19\frac{1}{2}$	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
...	...	75	...	1	0	0
...	...	70	...	$2\frac{1}{2}$	-10	100
...	...	30	...	$19\frac{1}{2}$	$\nearrow 9$	81
...	...	40	...	$14\frac{1}{2}$	$- 4\frac{1}{2}$	$20\frac{1}{4}$
...	...	58	...	$6\frac{1}{2}$	$-11\frac{1}{2}$	$132\frac{1}{4}$
...	...	63	...	4	-13	169
...	...	50	...	$9\frac{1}{2}$	$\nearrow 2\frac{1}{2}$	$6\frac{1}{4}$
...	...	50	...	$9\frac{1}{2}$	$- 5\frac{1}{2}$	$30\frac{1}{4}$
...	...	35	...	$16\frac{1}{2}$	$\nearrow 6$	36
...	...	40	...	$14\frac{1}{2}$	$\nearrow \frac{1}{2}$	$\frac{1}{4}$
...	...	50	...	$9\frac{1}{2}$	$\nearrow 4$	16
...	...	45	...	$12\frac{1}{2}$	0	0
...	...	30	...	$19\frac{1}{2}$	$\nearrow 11\frac{1}{2}$	$132\frac{1}{4}$
...	...	45	...	$12\frac{1}{2}$	$\nearrow 9$	81
...	...	50	...	$9\frac{1}{2}$	$-11\frac{1}{2}$	$132\frac{1}{4}$
...	...	70	...	$2\frac{1}{2}$	$- 6\frac{1}{2}$	$42\frac{1}{4}$
						<u>1170$\frac{1}{2}$</u>

CORRELATION $1 - \frac{6 \times 1170\frac{1}{2}}{21(21^2 - 1)} = \nearrow .24$

Hoke 4

74	2	- $3\frac{1}{2}$	$12\frac{1}{4}$
30	20	0	0
70	$3\frac{1}{2}$	$\nearrow 1\frac{1}{2}$	$2\frac{1}{4}$
58	7	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
52	12	- 4	16
56	$8\frac{1}{2}$	$\nearrow 7\frac{1}{2}$	$56\frac{1}{4}$
64	5	- $7\frac{1}{2}$	$56\frac{1}{4}$
42	17	$\nearrow 6\frac{1}{2}$	$42\frac{1}{4}$
30	20	$\nearrow 1$	1
36	18	0	0
56	$8\frac{1}{2}$	- $8\frac{1}{2}$	$72\frac{1}{4}$
52	12	$\nearrow 5$	25
44	16	$\nearrow 1$	1
62	6	- $4\frac{1}{2}$	$20\frac{1}{4}$
52	12	- 2	4
52	12	$\nearrow 6\frac{1}{2}$	$42\frac{1}{4}$
70	$3\frac{1}{2}$	- 9	81
46	15	$\nearrow 7$	49
80	1	- $2\frac{1}{2}$	$6\frac{1}{4}$
30	20	- 1	1
52	12	$\nearrow 3$	9
			<hr/>
			$509\frac{1}{2}$

CORRELATION $1 - \frac{6 \times 509\frac{1}{2}}{21(21^2 - 1)} = \nearrow .67$

11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50

$$T(x) = \frac{1}{(1-x)^2} \sum_{n=0}^{\infty} (n+1)x^n$$

Hoke 5

72	3	- $2\frac{1}{2}$	$6\frac{1}{4}$
37	21	/ 1	1
59	8	/ 6	36
48	$15\frac{1}{2}$	/ 12	144
38	19	/ 3	9
67	6	/ 5	25
75	2	- $10\frac{1}{2}$	$110\frac{1}{4}$
58	$9\frac{1}{2}$	- 1	1
48	$15\frac{1}{2}$	- $3\frac{1}{2}$	$12\frac{1}{4}$
58	$9\frac{1}{2}$	- $8\frac{1}{2}$	$72\frac{1}{4}$
60	7	- 10	100
80	1	- 6	36
52	13	- 2	4
53	12	/ $1\frac{1}{2}$	$2\frac{1}{4}$
38	19	/ 5	25
54	11	/ $5\frac{1}{2}$	$30\frac{1}{4}$
71	4	- $8\frac{1}{2}$	$72\frac{1}{4}$
50	14	/ 6	36
70	5	/ $1\frac{1}{2}$	$2\frac{1}{4}$
46	17	- 4	16
38	19	/ 10	<u>100</u>
			841

CORRELATION 1 - $\frac{6 \times 841}{21(21^2 - 1)} = .46$

100	100	100	100	100
90	90	90	90	90
80	80	80	80	80
70	70	70	70	70
60	60	60	60	60
50	50	50	50	50
40	40	40	40	40
30	30	30	30	30
20	20	20	20	20
10	10	10	10	10
0	0	0	0	0
10	10	10	10	10
20	20	20	20	20
30	30	30	30	30
40	40	40	40	40
50	50	50	50	50
60	60	60	60	60
70	70	70	70	70
80	80	80	80	80
90	90	90	90	90
100	100	100	100	100

COMPARISON OF THE 1940-1941 AND 1941-1942

Year	Crude Oil	Water	Gas	Oil	Water	Gas
		Lake 6				
1940-1941	72	116	8	8	$2\frac{1}{2}$	$6\frac{1}{4}$
1941-1942	72	72	19	19	- 1	1
1942-1943	72	116	8	8	6	36
1943-1944	72	120	$3\frac{1}{2}$	$3\frac{1}{2}$	0	0
1944-1945	72	120	$3\frac{1}{2}$	$3\frac{1}{2}$	$-12\frac{1}{2}$	$156\frac{1}{4}$
1945-1946	72	108	11	11	10	100
1946-1947	72	120	$3\frac{1}{2}$	$3\frac{1}{2}$	- 9	81
1947-1948	72	120	$3\frac{1}{2}$	$3\frac{1}{2}$	- 7	49
1948-1949	72	62	21	21	2	4
1949-1950	72	100	13	13	- 5	25
1950-1951	72	106	12	12	- 5	25
1951-1952	72	80	$16\frac{1}{2}$	$16\frac{1}{2}$	$9\frac{1}{2}$	$90\frac{1}{4}$
1952-1953	72	62	20	20	5	25
1953-1954	72	116	8	8	$-2\frac{1}{2}$	$6\frac{1}{4}$
1954-1955	72	82	15	15	1	1
1955-1956	72	120	$3\frac{1}{2}$	$3\frac{1}{2}$	- 2	4
1956-1957	72	120	$3\frac{1}{2}$	$3\frac{1}{2}$	-9	81
1957-1958	72	80	$16\frac{1}{2}$	$16\frac{1}{2}$	$8\frac{1}{2}$	$72\frac{1}{4}$
1958-1959	72	88	14	14	$10\frac{1}{2}$	$110\frac{1}{4}$
1959-1960	72	78	18	18	- 3	9
1960-1961	72	112	10	10	1	<u>1</u>
						$883\frac{1}{2}$

CORRELATION 1 - $\frac{6 \times 883\frac{1}{2}}{21(21^2 - 1)} = .43$

1	100	100	100	100	100
2	100	100	100	100	100
3	100	100	100	100	100
4	100	100	100	100	100
5	100	100	100	100	100
6	100	100	100	100	100
7	100	100	100	100	100
8	100	100	100	100	100
9	100	100	100	100	100
10	100	100	100	100	100
11	100	100	100	100	100
12	100	100	100	100	100
13	100	100	100	100	100
14	100	100	100	100	100
15	100	100	100	100	100
16	100	100	100	100	100
17	100	100	100	100	100
18	100	100	100	100	100
19	100	100	100	100	100
20	100	100	100	100	100
21	100	100	100	100	100
22	100	100	100	100	100
23	100	100	100	100	100
24	100	100	100	100	100
25	100	100	100	100	100
26	100	100	100	100	100
27	100	100	100	100	100
28	100	100	100	100	100
29	100	100	100	100	100
30	100	100	100	100	100
31	100	100	100	100	100
32	100	100	100	100	100
33	100	100	100	100	100
34	100	100	100	100	100
35	100	100	100	100	100
36	100	100	100	100	100
37	100	100	100	100	100
38	100	100	100	100	100
39	100	100	100	100	100
40	100	100	100	100	100
41	100	100	100	100	100
42	100	100	100	100	100
43	100	100	100	100	100
44	100	100	100	100	100
45	100	100	100	100	100
46	100	100	100	100	100
47	100	100	100	100	100
48	100	100	100	100	100
49	100	100	100	100	100
50	100	100	100	100	100
51	100	100	100	100	100
52	100	100	100	100	100
53	100	100	100	100	100
54	100	100	100	100	100
55	100	100	100	100	100
56	100	100	100	100	100
57	100	100	100	100	100
58	100	100	100	100	100
59	100	100	100	100	100
60	100	100	100	100	100
61	100	100	100	100	100
62	100	100	100	100	100
63	100	100	100	100	100
64	100	100	100	100	100
65	100	100	100	100	100
66	100	100	100	100	100
67	100	100	100	100	100
68	100	100	100	100	100
69	100	100	100	100	100
70	100	100	100	100	100
71	100	100	100	100	100
72	100	100	100	100	100
73	100	100	100	100	100
74	100	100	100	100	100
75	100	100	100	100	100
76	100	100	100	100	100
77	100	100	100	100	100
78	100	100	100	100	100
79	100	100	100	100	100
80	100	100	100	100	100
81	100	100	100	100	100
82	100	100	100	100	100
83	100	100	100	100	100
84	100	100	100	100	100
85	100	100	100	100	100
86	100	100	100	100	100
87	100	100	100	100	100
88	100	100	100	100	100
89	100	100	100	100	100
90	100	100	100	100	100
91	100	100	100	100	100
92	100	100	100	100	100
93	100	100	100	100	100
94	100	100	100	100	100
95	100	100	100	100	100
96	100	100	100	100	100
97	100	100	100	100	100
98	100	100	100	100	100
99	100	100	100	100	100
100	100	100	100	100	100

$$11 \times 11 = 121$$

Hoke 7

68	$1\frac{1}{2}$	$\neq 7$	49
63	$6\frac{1}{2}$	$-13\frac{1}{2}$	$182\frac{1}{4}$
69	5	$\neq 3$	9
74	3	$-\frac{1}{2}$	$\frac{1}{4}$
62	14	-2	4
68	$6\frac{1}{2}$	$\neq 5\frac{1}{2}$	$30\frac{1}{4}$
65	$9\frac{1}{2}$	-3	9
50	19	$\neq 8\frac{1}{2}$	$72\frac{1}{4}$
51	18	-1	1
83	1	-17	289
66	8	-9	81
53	17	$\neq 10$	100
0	21	$\neq 6$	36
78	2	$-8\frac{1}{2}$	$72\frac{1}{4}$
63	$12\frac{1}{2}$	$-1\frac{1}{2}$	$2\frac{1}{4}$
57	16	$\neq 10\frac{1}{2}$	$110\frac{1}{4}$
70	4	$-8\frac{1}{2}$	$72\frac{1}{4}$
58	15	$\neq 7$	49
49	20	$\neq 16\frac{1}{2}$	$272\frac{1}{4}$
64	11	-10	100
65	$9\frac{1}{2}$	$\neq \frac{1}{2}$	$\frac{1}{4}$
			<hr/>
			$1541\frac{1}{2}$

CORRELATION 1 - $\frac{6 \times 1541\frac{1}{2}}{21(21^2 - 1)} = 0$

CORRELATION BY RANK DIFFERENCES METHOD

NAME	Criterion	Tressler Test	Crit. Rank	Test Rank	Diff.	Diff. ²
Adcock	69	53	$5\frac{1}{2}$	9	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
Annunziata	46	17	20	21	$\nearrow 1$	1
Ballantine	77	61	2	5	$\nearrow 3$	9
Belkin	74	61	$3\frac{1}{2}$	5	$\nearrow 1\frac{1}{2}$	$2\frac{1}{4}$
Cardillo	55	47	16	11	- 5	25
Corson	78	53	1	9	$\nearrow 8$	64
Cunniffe	61	65	$12\frac{1}{2}$	2	$-10\frac{1}{2}$	$110\frac{1}{4}$
DeMarco	63	53	$10\frac{1}{2}$	9	- $1\frac{1}{2}$	$2\frac{1}{4}$
Gibson	48	39	19	15	- 4	16
Giordano	50	25	18	20	$\nearrow 2$	4
Greene	53	61	17	5	-12	144
Haley	67	64	7	3	- 4	16
Hebert	57	45	15	13	- 2	4
LaChapelle	63	42	$10\frac{1}{2}$	14	$\nearrow 3\frac{1}{2}$	$12\frac{1}{4}$
Lyden	60	37	14	18	$\nearrow 4$	16
MacDougal	69	29	$5\frac{1}{2}$	19	$\nearrow 13\frac{1}{2}$	$182\frac{1}{4}$
McCauley	61	69	$12\frac{1}{2}$	1	$-11\frac{1}{2}$	$132\frac{1}{4}$
McIntosh	66	46	8	12	$\nearrow 4$	16
Spencer	74	56	$3\frac{1}{2}$	17	$\nearrow 13\frac{1}{2}$	$182\frac{1}{4}$
Stebner	61	38	21	$16\frac{1}{2}$	- $4\frac{1}{2}$	$20\frac{1}{4}$
Uhlin	64	38	9	$16\frac{1}{2}$	$\nearrow 7\frac{1}{2}$	$56\frac{1}{4}$
						$1027\frac{1}{2}$

$$\text{CORRELATION} \quad 1 - \frac{6 \times 1027\frac{1}{2}}{21(21^2 - 1)} = \nearrow .33$$

TABLE 1. - SUMMARY OF DATA FOR THE YEAR 1964

State	1964	1963	1962	1961	1960
Alabama	10	10	10	10	10
Alaska	1	1	1	1	1
Arizona	1	1	1	1	1
Arkansas	1	1	1	1	1
California	1	1	1	1	1
Colorado	1	1	1	1	1
Connecticut	1	1	1	1	1
Delaware	1	1	1	1	1
District of Columbia	1	1	1	1	1
Florida	1	1	1	1	1
Georgia	1	1	1	1	1
Hawaii	1	1	1	1	1
Idaho	1	1	1	1	1
Illinois	1	1	1	1	1
Indiana	1	1	1	1	1
Iowa	1	1	1	1	1
Kansas	1	1	1	1	1
Kentucky	1	1	1	1	1
Louisiana	1	1	1	1	1
Maine	1	1	1	1	1
Maryland	1	1	1	1	1
Massachusetts	1	1	1	1	1
Michigan	1	1	1	1	1
Minnesota	1	1	1	1	1
Mississippi	1	1	1	1	1
Missouri	1	1	1	1	1
Montana	1	1	1	1	1
Nebraska	1	1	1	1	1
Nevada	1	1	1	1	1
New Hampshire	1	1	1	1	1
New Jersey	1	1	1	1	1
New Mexico	1	1	1	1	1
New York	1	1	1	1	1
North Carolina	1	1	1	1	1
North Dakota	1	1	1	1	1
Ohio	1	1	1	1	1
Oklahoma	1	1	1	1	1
Oregon	1	1	1	1	1
Pennsylvania	1	1	1	1	1
Rhode Island	1	1	1	1	1
South Carolina	1	1	1	1	1
South Dakota	1	1	1	1	1
Tennessee	1	1	1	1	1
Texas	1	1	1	1	1
Utah	1	1	1	1	1
Vermont	1	1	1	1	1
Virginia	1	1	1	1	1
Washington	1	1	1	1	1
West Virginia	1	1	1	1	1
Wisconsin	1	1	1	1	1
Wyoming	1	1	1	1	1

Source: U.S. Census Bureau, Statistical Abstract, 1965, Table 100-1.

APPENDIX E

Rank Positions of Seven Best Batteries
and Correlations with Criterion and
with Miss W Ranks of the Seven
Best Batteries

CHAPTER I

THE FIRST PART OF THE HISTORY OF THE
REIGN OF CHARLES THE FIRST
IN THE YEAR OF HIS AGE 1625
AND IN THE YEAR OF HIS REIGN 1625

Rank Positions in Criterion and in Best Batteries

	Criterion	1,2,9,10, H 1,4	1,2,8,9,10, H 1,4	3,7,8,9,10, H 1,4, - H 2	1,2,8,9,10, H 1,4, - H 2	1,8,9,10, -H 2	1,2,5,8,9,10, H 1,4, - H 2	1,2,9,10, H 1,4, - H 2
Adcock	5 $\frac{1}{2}$	3	2	3 $\frac{1}{2}$	3	4	3 $\frac{1}{2}$	4 $\frac{1}{2}$
Annunziata	20	20	20	21	20	20	20 $\frac{1}{2}$	20 $\frac{1}{2}$
Ballantine	2	2	3	2	1	1	1	1
Belkin	3 $\frac{1}{2}$	9 $\frac{1}{2}$	9	13	13 $\frac{1}{2}$	13 $\frac{1}{2}$	12	13
Cardillo	16	14	15	17	15	15	17 $\frac{1}{2}$	16
Corson	1	9 $\frac{1}{2}$	8	6	6	6	8	6 $\frac{1}{2}$
Cunniffe	12 $\frac{1}{2}$	5	5	3 $\frac{1}{2}$	4	3	2	3
DeMarco	10 $\frac{1}{2}$	15 $\frac{1}{2}$	17	15	16	16	14	14 $\frac{1}{2}$
Gibson	19	18 $\frac{1}{2}$	19	18	18	19	19	18
Giordano	18	18 $\frac{1}{2}$	18	19	19	17	17 $\frac{1}{2}$	19
Greene	17	6	7	9	9	9	6	9
Haley	7	12	13	12	10	10	11	10
Hebert	15	17	16	16	17	18	16	17
LaChapelle	10 $\frac{1}{2}$	11	11	11	13 $\frac{1}{2}$	13 $\frac{1}{2}$	15	12
Lyden	14	8	10	7 $\frac{1}{2}$	8	8	7	6 $\frac{1}{2}$
MacDougal	5 $\frac{1}{2}$	7	6	7 $\frac{1}{2}$	7	7	10	8
McCauley	12 $\frac{1}{2}$	1	1	5	5	5	5	4 $\frac{1}{2}$
McIntosh	8	15 $\frac{1}{2}$	14	14	12	12	13	14 $\frac{1}{2}$
Spencer	3 $\frac{1}{2}$	4	4	1	2	2	3 $\frac{1}{2}$	2
Stebner	21	0	21	20	21	21	20 $\frac{1}{2}$	20 $\frac{1}{2}$
Uhlin	9	13	12	10	11	11	9	11

Battery

1-2-8-9-10-1-4

Rank Correlations
With Criterion, Miss W Book and Miss W Estimate

	Criterion	Battery	Difference	Difference ²	Battery	Miss W. Book	Difference	Difference ²	Battery	Miss W. Est.	Difference	Difference ²
Adcock	5½	2	2½	6¼	2	3	1	1	2	2	0	0
Annunziata	20	20	0		20	21	1	1	20	21	1	1
Ballantine	2	3	1	1	3	2	1	1	3	1	2	4
Belkin	3½	9	5½	30¼	9	1	8	64	9	6	3	9
Cardillo	16	15	1	1	15	7	8	64	15	18	3	9
Corson	1	8	7	49	8	6	2	4	8	7	1	1
Cunniffe	12½	5	7½	56¼	5	14	9	81	5	11	6	36
DeMarco	10½	17	6½	42¼	17	10	7	49	17	9	8	64
Gibson	19	19	0		19	17	2	4	19	14	5	25
Giordano	18	18	0		18	20	2	4	18	20	2	4
Greene	17	7	10	100	7	15	8	64	7	15	8	64
Haley	7	13	6	36	13	8	5	25	13	12	1	1
Hebert	15	16	1	1	16	16	0		16	16	0	
LaChapelle	10½	11	½	¼	11	18	7	49	11	17	6	36
Lyden	14	10	4	16	10	11	1	1	10	13	3	9
MacDougal	5½	6	½	¼	6	4	2	4	6	5	1	1
McCauley	12½	1	11½	132¼	1	12	11	121	1	8	7	49
McIntosh	8	14	6	36	14	13	1	1	14	10	4	16
Spencer	3½	4	½	¼	4	5	1	1	4	3	1	1
Stebner	21	21	0		21	19	2	4	21	19	2	4
Uhlin	9	12	3	9	12	9	3	9	12	4	8	64
				517				552				398

$$1 - \frac{6 \times 517}{9240} = .66$$

$$1 - \frac{6 \times 552}{9240} = .64$$

$$1 - \frac{6 \times 398}{9240} = .74$$

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Author	Title	Year	Volume	Page	Notes
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	1-17	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	18-35	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	36-53	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	54-71	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	72-89	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	90-107	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	108-125	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	126-143	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	144-161	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	162-179	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	180-197	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	198-215	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	216-233	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	234-251	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	252-269	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	270-287	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	288-305	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	306-323	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	324-341	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	342-359	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	360-377	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	378-395	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	396-413	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	414-431	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	432-449	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	450-467	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	468-485	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	486-503	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	504-521	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	522-539	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	540-557	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	558-575	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	576-593	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	594-611	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	612-629	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	630-647	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	648-665	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	666-683	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	684-701	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	702-719	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	720-737	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	738-755	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	756-773	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	774-791	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	792-809	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	810-827	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	828-845	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	846-863	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	864-881	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	882-899	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	900-917	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	918-935	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	936-953	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	954-971	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	972-989	
Adams, John Quincy	Discourse on the Natural Rights of Man	1792	1	990-1007	

Battery

3-7-8-9-10-1-4 Minus H2

Rank Correlations
With Criterion, Miss W Book and Miss W Estimate

	Criterion	Battery	Difference	Difference ²	Battery	Miss W. Book	Difference	Difference ²	Battery	Miss W. Est.	Difference	Difference ²
Adcock	5 $\frac{1}{2}$	3 $\frac{1}{2}$	2	4	3 $\frac{1}{2}$	3	$\frac{1}{2}$	$\frac{1}{4}$	3 $\frac{1}{2}$	2	1 $\frac{1}{2}$	2 $\frac{1}{4}$
Annunziata	20	21	1	1	21	21	0		21	21	0	
Ballantine	2	2	0		2	2	0		2	1	1	1
Belkin	3 $\frac{1}{2}$	13	9 $\frac{1}{2}$	90 $\frac{1}{4}$	13	1	12	144	13	6	7	49
Cardillo	16	17	1	1	17	7	10	100	17	18	1	1
Corson	1	6	5	25	6	6	0	0	6	7	1	1
Cunniffe	12 $\frac{1}{2}$	3 $\frac{1}{2}$	9	81	3 $\frac{1}{2}$	14	10 $\frac{1}{2}$	110 $\frac{1}{4}$	3 $\frac{1}{2}$	11	7 $\frac{1}{2}$	56 $\frac{1}{4}$
DeMarco	10 $\frac{1}{2}$	15	4 $\frac{1}{2}$	20 $\frac{1}{4}$	15	10	5	25	15	9	6	36
Gibson	19	18	1	1	18	17	1	1	18	14	4	16
Giordano	18	19	1	1	19	20	1	1	19	20	1	1
Greene	17	9	8	64	9	15	6	36	9	15	6	36
Haley	7	12	5	25	12	8	4	16	12	12	0	
Hebert	15	16	1	1	16	16	0		16	16	0	
LaChapelle	10 $\frac{1}{2}$	11	$\frac{1}{2}$	$\frac{1}{4}$	11	18	7	49	11	17	6	36
Lyden	14	7 $\frac{1}{2}$	6 $\frac{1}{2}$	42 $\frac{1}{4}$	7 $\frac{1}{2}$	11	3 $\frac{1}{2}$	12 $\frac{1}{4}$	7 $\frac{1}{2}$	13	5 $\frac{1}{2}$	30 $\frac{1}{4}$
MacDougal	5 $\frac{1}{2}$	7 $\frac{1}{2}$	2	4	7 $\frac{1}{2}$	4	3 $\frac{1}{2}$	12 $\frac{1}{4}$	7 $\frac{1}{2}$	5	2 $\frac{1}{2}$	6 $\frac{1}{4}$
McCauley	12 $\frac{1}{2}$	5	7 $\frac{1}{2}$	56 $\frac{1}{4}$	5	12	7	49	5	8	3	9
McIntosh	8	14	6	36	14	13	1	1	14	10	4	16
Spencer	3 $\frac{1}{2}$	1	2 $\frac{1}{2}$	6 $\frac{1}{4}$	1	5	4	16	1	3	2	4
Stebner	21	20	1	1	20	19	1	1	20	19	1	1
Uhlin	9	10	1	1	10	9	1	1	10	4	6	36
			461$\frac{1}{2}$				575				338	

$$1 - \frac{6 \times 461\frac{1}{2}}{9240} = .71$$

$$1 - \frac{6 \times 575}{9240} = .63$$

$$1 - \frac{6 \times 338}{9240} = .78$$

Battery

1-2-8-9-10-1-4 Minus H2

Rank Correlations

With Criterion, Miss W Book and Miss W Estimate

	Criterion	Battery	Difference	Difference ²	Battery	Miss W. Book	Difference	Difference ²	Battery	Miss W. Est.	Difference	Difference ²
Adcock	5 $\frac{1}{2}$	3	2 $\frac{1}{2}$	6 $\frac{1}{4}$	3	3	0		3	2	1	1
Annunziata	20	20	0		20	21	1	1	20	21	1	1
Ballantine	2	1	1	1	1	2	1	1	1	1	0	
Belkin	3 $\frac{1}{2}$	13 $\frac{1}{2}$	10	100	13 $\frac{1}{2}$	1	12 $\frac{1}{2}$	156 $\frac{1}{4}$	13 $\frac{1}{2}$	6	7 $\frac{1}{2}$	56 $\frac{1}{4}$
Cardillo	16	15	1	1	15	7	8	64	15	18	3	9
Corson	1	6	5	25	6	6	0		6	7	1	1
Cunniffe	12 $\frac{1}{2}$	4	8 $\frac{1}{2}$	72 $\frac{1}{4}$	4	14	10	100	4	11	7	49
DeMarco	10 $\frac{1}{2}$	16	5 $\frac{1}{2}$	30 $\frac{1}{4}$	16	10	6	36	16	9	7	49
Gibson	19	18	1	1	18	17	1	1	18	14	4	16
Giordano	18	19	1	1	19	20	1	1	19	20	1	1
Greene	17	9	8	64	9	15	6	36	9	15	6	36
Haley	7	10	3	9	10	8	2	4	10	12	2	4
Hebert	15	17	2	4	17	16	1	1	17	16	1	1
LaChapelle	10 $\frac{1}{2}$	13 $\frac{1}{2}$	3	9	13 $\frac{1}{2}$	18	4 $\frac{1}{2}$	20 $\frac{1}{4}$	13 $\frac{1}{2}$	17	3 $\frac{1}{2}$	12 $\frac{1}{4}$
Lyden	14	8	-6	36	8	11	3	9	8	13	5	25
MacDougal	5 $\frac{1}{2}$	7	1 $\frac{1}{2}$	2 $\frac{1}{4}$	7	4	3	9	7	5	2	4
McCauley	12 $\frac{1}{2}$	5	7 $\frac{1}{2}$	56 $\frac{1}{4}$	5	12	7	49	5	8	3	9
McIntosh	8	12	4	16	12	13	1	1	12	10	2	4
Spencer	3 $\frac{1}{2}$	2	1 $\frac{1}{2}$	2 $\frac{1}{4}$	2	5	3	9	2	3	1	1
Stebner	21	21	0		21	19	2	4	21	19	2	4
Uhlin	9	11	2	4	11	9	2	4	11	4	7	49
				440 $\frac{1}{2}$				506 $\frac{1}{2}$				332 $\frac{1}{2}$

$$1 - \frac{6 \times 440\frac{1}{2}}{9240} = .71$$

$$1 - \frac{6 \times 506\frac{1}{2}}{9240} = .67$$

$$1 - \frac{6 \times 332\frac{1}{2}}{9240} = .78$$

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

1-8-9-10-1-4 Minus H2

Rank Correlations
With Criterion, Miss W Book and Miss W Estimate

	Criterion	Battery	Difference	Difference ²	Battery	Miss W. Book	Difference	Difference ²	Battery	Miss W. Est.	Difference	Difference ²
Adcock	5 $\frac{1}{2}$	4	1 $\frac{1}{2}$	2 $\frac{1}{4}$	4	3	1	1	4	2	2	4
Annunziata	20	20	0		20	21	1	1	20	21	1	1
Ballantine	2	1	1	1	1	2	1	1	1	1	1	1
Belkin	3 $\frac{1}{2}$	13 $\frac{1}{2}$	10	100	13 $\frac{1}{2}$	1	12 $\frac{1}{2}$	156 $\frac{1}{4}$	13 $\frac{1}{2}$	6	7 $\frac{1}{2}$	56 $\frac{1}{4}$
Cardillo	16	15	1	1	15	7	8	64	15	18	3	9
Corson	1	6	5	25	6	6	0	0	6	7	1	1
Cunniff	12 $\frac{1}{2}$	3	9 $\frac{1}{2}$	90 $\frac{1}{4}$	3	14	11	121	3	11	8	64
DeMarco	10 $\frac{1}{2}$	16	5 $\frac{1}{2}$	30 $\frac{1}{4}$	16	10	6	36	16	9	7	49
Gibson	19	19	0		19	17	2	4	19	14	5	25
Giordano	18	17	1	1	17	20	3	9	17	20	3	9
Greene	17	9	8	64	9	15	6	36	9	15	6	36
Haley	7	10	3	9	10	8	2	4	10	12	2	4
Hebert	15	18	3	9	18	16	2	4	18	16	2	4
LaChapelle	10 $\frac{1}{2}$	13 $\frac{1}{2}$	3	9	13 $\frac{1}{2}$	18	4 $\frac{1}{2}$	20 $\frac{1}{4}$	13 $\frac{1}{2}$	17	3 $\frac{1}{2}$	12 $\frac{1}{4}$
Lyden	14	8	6	36	8	11	3	9	8	13	5	25
MacDougal	5 $\frac{1}{2}$	7	1 $\frac{1}{2}$	2 $\frac{1}{4}$	7	4	3	9	7	5	2	4
McCauley	12 $\frac{1}{2}$	5	7 $\frac{1}{2}$	56 $\frac{1}{4}$	5	12	7	49	5	8	3	9
McIntosh	8	12	4	16	12	13	1	1	12	10	2	4
Spencer	3 $\frac{1}{2}$	2	1 $\frac{1}{2}$	2 $\frac{1}{4}$	2	5	3	9	2	3	1	1
Stebner	21	21	0		21	19	2	4	21	19	2	4
Uhlin	9	11	2	4	11	9	2	4	11	4	7	49
				458 $\frac{1}{2}$				542 $\frac{1}{2}$				371 $\frac{1}{2}$
	1 - $\frac{6 \times 458\frac{1}{2}}{9240} = .70$					1 - $\frac{6 \times 542\frac{1}{2}}{9240} = .65$					1 - $\frac{6 \times 371\frac{1}{2}}{9240} = .76$	

Rank Correlations

With Criterion, Miss W Book and Miss W Estimate

	Criterion	Battery	Difference	Difference ²	Battery	Miss W. Book	Difference	Difference ²	Battery	Miss W. Est.	Difference	Difference ²
Adcock	5½	4½	1	1	4½	3	1½	2¼	4½	2	2½	6¼
Annunziata	20	20½	½	¼	20½	21	½	¼	20½	21	½	¼
Ballantine	2	1	1	1	1	2	1	1	1	1	1	1
Belkin	3½	13	9½	90¼	13	1	12	144	13	6	7	49
Cardillo	16	16	0		16	7	9	81	16	18	2	4
Corson	1	6½	5½	30¼	6½	6	½	¼	6½	7	½	¼
Cunniffe	12½	3	9½	90¼	3	14	11	121	3	11	8	64
DeMarco	10½	14½	4	16	14½	10	4½	20¼	14½	9	5½	30¼
Gibson	19	18	1	1	18	17	1	1	18	14	4	16
Giordano	18	19	1	1	19	20	1	1	19	20	1	1
Greene	17	9	8	64	9	15	6	36	9	15	6	36
Haley	7	10	3	9	10	8	2	4	10	12	2	4
Hebert	15	17	2	4	17	16	1	1	17	16	1	1
LaChapelle	10½	12	1½	2¼	12	18	6	36	12	17	5	25
Lyden	14	6½	7½	56¼	6½	11	4½	20¼	6½	13	6½	42¼
MacDougal	5½	8	2½	6¼	8	4	4	16	8	5	3	9
McCauley	12½	4½	8	64	4½	12	7½	56¼	4½	8	3½	12¼
McIntosh	8	14½	6½	42¼	14½	13	1½	2¼	14½	10	4½	20¼
Spencer	3½	2	1½	2¼	2	5	3	9	2	3	1	1
Stebner	21	20½	½	¼	20½	19	1½	2¼	20½	19	1½	2¼
Uhlin	9	11	2	4	11	9	2	4	11	4	7	49
				485½				559				374

$$1 - \frac{6 \times 485\frac{1}{2}}{9240} = .68$$

$$1 - \frac{6 \times 555}{9240} = .64$$

$$1 - \frac{6 \times 374}{9240} = .76$$

Rank Correlations
With Criterion, Miss W Book and Miss W Estimate

	Criterion	Battery	Difference	Difference ²	Battery	Miss W. Book	Difference	Difference ²	Battery	Miss W. Est.	Difference	Difference ²
Adcock	5 $\frac{1}{2}$	3	- 1 $\frac{1}{2}$	2 $\frac{1}{4}$	3	3	0		3	2	1	1
Annunziata	20	20	0		20	21	1	1	20	21	1	1
Ballantine	2	2	0		2	2	0		2	1	1	1
Belkin	3 $\frac{1}{2}$	9 $\frac{1}{2}$	/ 6	36	9 $\frac{1}{4}$	1	8 $\frac{1}{2}$	72 $\frac{1}{4}$	9 $\frac{1}{2}$	6	3 $\frac{1}{2}$	12 $\frac{1}{4}$
Cardillo	16	14	- 2	4	14	7	7	49	14	18	4	16
Corson	1	9 $\frac{1}{2}$	/ 8 $\frac{1}{2}$	72 $\frac{1}{4}$	9 $\frac{1}{2}$	6	3 $\frac{1}{2}$	12 $\frac{1}{4}$	9 $\frac{1}{2}$	7	2 $\frac{1}{2}$	6 $\frac{1}{4}$
Cunniffe	12 $\frac{1}{2}$	5	- 7 $\frac{1}{2}$	56 $\frac{1}{4}$	5	14	9	81	5	11	6	36
DeMarco	10 $\frac{1}{2}$	15 $\frac{1}{2}$	/ 5	25	15 $\frac{1}{2}$	10	5 $\frac{1}{2}$	30 $\frac{1}{4}$	15 $\frac{1}{2}$	9	6 $\frac{1}{2}$	42 $\frac{1}{4}$
Gibson	19	18 $\frac{1}{2}$	- $\frac{1}{2}$	$\frac{1}{4}$	18 $\frac{1}{2}$	17	1 $\frac{1}{2}$	2 $\frac{1}{4}$	18 $\frac{1}{2}$	14	4 $\frac{1}{2}$	20 $\frac{1}{4}$
Giordano	18	18 $\frac{1}{2}$	/ $\frac{1}{2}$	$\frac{1}{4}$	18 $\frac{1}{2}$	20	1 $\frac{1}{2}$	2 $\frac{1}{4}$	18 $\frac{1}{2}$	20	1 $\frac{1}{2}$	2 $\frac{1}{4}$
Greene	17	6	-11	121	6	15	9	81	6	15	9	81
Haley	7	12	/ 5	25	12	8	4	16	12	12	0	
Hebert	15	17	/ 2	4	17	16	1	1	17	16	1	1
LaChapelle	10 $\frac{1}{2}$	11	/ $\frac{1}{2}$	$\frac{1}{4}$	11	18	7	49	11	17	6	36
Lyden	14	8	- 6	36	8	11	3	9	8	13	5	25
MacDougal	5 $\frac{1}{2}$	7	/ 1 $\frac{1}{2}$	2 $\frac{1}{4}$	7	4	3	9	7	5	2	4
McCauley	12 $\frac{1}{2}$	1	-11 $\frac{1}{2}$	132 $\frac{1}{4}$	1	12	11	121	1	8	7	49
McIntosh	8	15 $\frac{1}{2}$	/ 7 $\frac{1}{2}$	56 $\frac{1}{4}$	15 $\frac{1}{2}$	13	1 $\frac{1}{2}$	2 $\frac{1}{4}$	15 $\frac{1}{2}$	10	5 $\frac{1}{2}$	30 $\frac{1}{4}$
Spencer	3 $\frac{1}{2}$	4	/ $\frac{1}{2}$	$\frac{1}{4}$	4	5	1	1	4	3	1	1
Stebner	21	21	0		21	19	2	4	21	19	2	4
Uhlin	9	13	/ 4	16	13	9	4	16	13	4	9	81
				589 $\frac{1}{2}$				5259 $\frac{1}{2}$				450 $\frac{1}{2}$

$$1 - \frac{6 \times 589\frac{1}{2}}{9240} = \text{/.62}$$

$$1 - \frac{6 \times 559\frac{1}{2}}{9240} = \text{/.64}$$

$$1 - \frac{6 \times 450\frac{1}{2}}{9240} = \text{/.71}$$

TABLE 1. - SUMMARY OF DATA FOR THE 1950-1951 FISHING SEASON

Date	Time	Locality	Depth	Species	Number	Weight	Length	Girth	Remarks
1	10	10	10	0	0	0	0	0	None
2	10	10	10	1	1	1	1	1	100 lbs
3	10	10	10	1	1	1	1	1	100 lbs
4	10	10	10	1	1	1	1	1	100 lbs
5	10	10	10	1	1	1	1	1	100 lbs
6	10	10	10	1	1	1	1	1	100 lbs
7	10	10	10	1	1	1	1	1	100 lbs
8	10	10	10	1	1	1	1	1	100 lbs
9	10	10	10	1	1	1	1	1	100 lbs
10	10	10	10	1	1	1	1	1	100 lbs
11	10	10	10	1	1	1	1	1	100 lbs
12	10	10	10	1	1	1	1	1	100 lbs
13	10	10	10	1	1	1	1	1	100 lbs
14	10	10	10	1	1	1	1	1	100 lbs
15	10	10	10	1	1	1	1	1	100 lbs
16	10	10	10	1	1	1	1	1	100 lbs
17	10	10	10	1	1	1	1	1	100 lbs
18	10	10	10	1	1	1	1	1	100 lbs
19	10	10	10	1	1	1	1	1	100 lbs
20	10	10	10	1	1	1	1	1	100 lbs
21	10	10	10	1	1	1	1	1	100 lbs
22	10	10	10	1	1	1	1	1	100 lbs
23	10	10	10	1	1	1	1	1	100 lbs
24	10	10	10	1	1	1	1	1	100 lbs
25	10	10	10	1	1	1	1	1	100 lbs
26	10	10	10	1	1	1	1	1	100 lbs
27	10	10	10	1	1	1	1	1	100 lbs
28	10	10	10	1	1	1	1	1	100 lbs
29	10	10	10	1	1	1	1	1	100 lbs
30	10	10	10	1	1	1	1	1	100 lbs
31	10	10	10	1	1	1	1	1	100 lbs
32	10	10	10	1	1	1	1	1	100 lbs
33	10	10	10	1	1	1	1	1	100 lbs
34	10	10	10	1	1	1	1	1	100 lbs
35	10	10	10	1	1	1	1	1	100 lbs
36	10	10	10	1	1	1	1	1	100 lbs
37	10	10	10	1	1	1	1	1	100 lbs
38	10	10	10	1	1	1	1	1	100 lbs
39	10	10	10	1	1	1	1	1	100 lbs
40	10	10	10	1	1	1	1	1	100 lbs
41	10	10	10	1	1	1	1	1	100 lbs
42	10	10	10	1	1	1	1	1	100 lbs
43	10	10	10	1	1	1	1	1	100 lbs
44	10	10	10	1	1	1	1	1	100 lbs
45	10	10	10	1	1	1	1	1	100 lbs
46	10	10	10	1	1	1	1	1	100 lbs
47	10	10	10	1	1	1	1	1	100 lbs
48	10	10	10	1	1	1	1	1	100 lbs
49	10	10	10	1	1	1	1	1	100 lbs
50	10	10	10	1	1	1	1	1	100 lbs

1-2-5-8-9-10-1-4 Minus H2

Rank Correlations
With Criterion, Miss W Book and Miss W Estimate

	Criterion	Battery	Difference	Difference ²		Battery	Miss W. Book	Difference	Difference ²		Battery	Miss W. Est.	Difference	Difference ²
Adcock	$3\frac{1}{2}$	$5\frac{1}{2}$	2	4		$3\frac{1}{2}$	3	$\frac{1}{2}$	$\frac{1}{4}$		$3\frac{1}{2}$	2	$1\frac{1}{2}$	$2\frac{1}{4}$
Annunziata	$20\frac{1}{2}$	20	$-\frac{1}{2}$	$\frac{1}{4}$		$20\frac{1}{2}$	21	$\frac{1}{2}$	$\frac{1}{4}$		$20\frac{1}{2}$	21	$\frac{1}{2}$	$\frac{1}{4}$
Ballantine	1	2	1	1		1	2	1	1		1	1	0	
Belkin	12	$3\frac{1}{2}$	$8\frac{1}{2}$	$72\frac{1}{4}$		12	1	11	121		12	6	6	36
Cardillo	$17\frac{1}{2}$	16	$1\frac{1}{2}$	$2\frac{1}{4}$		$17\frac{1}{2}$	7	$10\frac{1}{2}$	$110\frac{1}{4}$		$17\frac{1}{2}$	18	$\frac{1}{2}$	$\frac{1}{4}$
Corson	8	1	7	49		8	6	2	4		8	7	1	1
Cunniffe	2	$12\frac{1}{2}$	$10\frac{1}{2}$	$110\frac{1}{4}$		2	14	12	144		2	11	9	81
DeMarco	14	$10\frac{1}{2}$	$3\frac{1}{2}$	$12\frac{1}{4}$		14	10	4	16		14	9	5	25
Gibson	19	19	0	0		19	17	2	4		19	14	5	25
Giordano	$17\frac{1}{2}$	18	$\frac{1}{2}$	$\frac{1}{4}$		$17\frac{1}{2}$	20	$2\frac{1}{2}$	$6\frac{1}{4}$		$17\frac{1}{2}$	20	$2\frac{1}{2}$	$6\frac{1}{4}$
Greene	6	17	11	121		6	15	9	81		6	15	9	81
Haley	11	7	4	16		11	8	3	9		11	12	1	1
Hebert	16	15	1	1		16	16	0			16	16	0	
LaChapelle	15	$10\frac{1}{2}$	$4\frac{1}{2}$	$20\frac{1}{4}$		15	18	3	9		15	17	2	4
Lyden	7	14	7	49		7	11	4	16		7	13	6	36
MacDougal	10	$5\frac{1}{2}$	$4\frac{1}{2}$	$20\frac{1}{4}$		10	4	6	36		10	5	5	25
McCauley	5	$12\frac{1}{2}$	$7\frac{1}{2}$	$56\frac{1}{4}$		5	12	7	49		5	8	3	9
McIntosh	13	8	5	25		13	13	0			13	10	3	9
Spencer	$3\frac{1}{2}$	$3\frac{1}{2}$	0			$3\frac{1}{2}$	5	$1\frac{1}{2}$	$2\frac{1}{4}$		$3\frac{1}{2}$	3	$\frac{1}{2}$	$\frac{1}{4}$
Stebner	$20\frac{1}{2}$	21	$\frac{1}{2}$	$\frac{1}{4}$		$20\frac{1}{2}$	19	$1\frac{1}{2}$	$2\frac{1}{4}$		$20\frac{1}{2}$	19	$1\frac{1}{2}$	$2\frac{1}{4}$
Uhlin	9	9	0			9	9	0			9	4	5	$25\frac{1}{2}$
				$560\frac{1}{2}$					$611\frac{1}{2}$					$369\frac{1}{2}$
	$1 - \frac{6 \times 560\frac{1}{2}}{9240} = .64$					$1 - \frac{6 \times 611\frac{1}{2}}{9240} = .60$					$1 - \frac{6 \times 369\frac{1}{2}}{9240} = .76$			

Table 1. Summary of the results of the analysis of variance for the different factors studied.

Factor	Level	Mean	Standard Error	Sum of Squares	D.F.	F-value	Significance
Factor 1	1, 2, 3, 4	1.5	0.2	1.0	3	1.5	0.25
Factor 2	1, 2, 3, 4	2.0	0.3	1.5	3	2.0	0.15
Factor 3	1, 2, 3, 4	1.8	0.2	1.2	3	1.8	0.20
Factor 4	1, 2, 3, 4	2.2	0.3	1.6	3	2.2	0.12
Factor 5	1, 2, 3, 4	1.9	0.2	1.3	3	1.9	0.18
Factor 6	1, 2, 3, 4	2.1	0.3	1.7	3	2.1	0.14
Factor 7	1, 2, 3, 4	1.7	0.2	1.1	3	1.7	0.22
Factor 8	1, 2, 3, 4	2.3	0.3	1.8	3	2.3	0.11
Factor 9	1, 2, 3, 4	1.6	0.2	1.0	3	1.6	0.24
Factor 10	1, 2, 3, 4	2.4	0.3	1.9	3	2.4	0.10
Factor 11	1, 2, 3, 4	1.5	0.2	1.0	3	1.5	0.25
Factor 12	1, 2, 3, 4	2.0	0.3	1.5	3	2.0	0.15
Factor 13	1, 2, 3, 4	1.8	0.2	1.2	3	1.8	0.20
Factor 14	1, 2, 3, 4	2.2	0.3	1.6	3	2.2	0.12
Factor 15	1, 2, 3, 4	1.9	0.2	1.3	3	1.9	0.18
Factor 16	1, 2, 3, 4	2.1	0.3	1.7	3	2.1	0.14
Factor 17	1, 2, 3, 4	1.7	0.2	1.1	3	1.7	0.22
Factor 18	1, 2, 3, 4	2.3	0.3	1.8	3	2.3	0.11
Factor 19	1, 2, 3, 4	1.6	0.2	1.0	3	1.6	0.24
Factor 20	1, 2, 3, 4	2.4	0.3	1.9	3	2.4	0.10
Factor 21	1, 2, 3, 4	1.5	0.2	1.0	3	1.5	0.25
Factor 22	1, 2, 3, 4	2.0	0.3	1.5	3	2.0	0.15
Factor 23	1, 2, 3, 4	1.8	0.2	1.2	3	1.8	0.20
Factor 24	1, 2, 3, 4	2.2	0.3	1.6	3	2.2	0.12
Factor 25	1, 2, 3, 4	1.9	0.2	1.3	3	1.9	0.18
Factor 26	1, 2, 3, 4	2.1	0.3	1.7	3	2.1	0.14
Factor 27	1, 2, 3, 4	1.7	0.2	1.1	3	1.7	0.22
Factor 28	1, 2, 3, 4	2.3	0.3	1.8	3	2.3	0.11
Factor 29	1, 2, 3, 4	1.6	0.2	1.0	3	1.6	0.24
Factor 30	1, 2, 3, 4	2.4	0.3	1.9	3	2.4	0.10

APPENDIX F

Products Moments Correlation of Criterion
with Hoke 7, Omitting One Pupil

PLATE I.

THE GREAT BRITISH MUSEUM
LONDON

Omitting One Pupil

	Criterion	Hoke 7	Deviation		X^2	Y^2	Product	
			X	Y			Σ	-
Adcock	69	68	$\neq 7$	$\neq 4$	49	16	28	
Annunziata	46	63	-16	- 1	256	1	16	
Ballantine	77	69	$\neq 15$	$\neq 5$	225	25	75	
Belkin	74	74	$\neq 12$	$\neq 10$	144	100	120	
Cardillo	55	62	- 7	- 2	49	4	14	
Corson	78	68	$\neq 16$	$\neq 4$	256	16	64	
Cunniffe	61	65	- 1	$\neq 1$	1	1		1
DeMarco	63	50	$\neq 1$	-14	1	196		14
Gibson	48	51	-14	-13	196	169	182	
Giordano	50	83	-12	$\neq 19$	144	361		228
Greene	53	66	- 9	$\neq 2$	81	4		18
Haley	67	53	$\neq 5$	-11	25	121		55
LaChapelle	63	78	$\neq 1$	$\neq 14$	1	196	14	
Lyden	60	63	- 2	- 1	4	1	2	
MacDougal	69	57	$\neq 7$	- 7	49	49		49
McCauley	61	70	- 1	$\neq 6$	1	36		6
McIntosh	66	58	$\neq 4$	- 6	16	36		24
Spencer	74	49	$\neq 12$	-15	144	225		180
Stebner	41	64	-21	0	441	0		
Uhlin	64	65	$\neq 2$	$\neq 1$	4	1	2	
	1239	1276			2087	1558	$\neq 517$	$\neq 575$
	62	64			104.35	74.19		$\neq 517$
					10.21	8.61		- 58

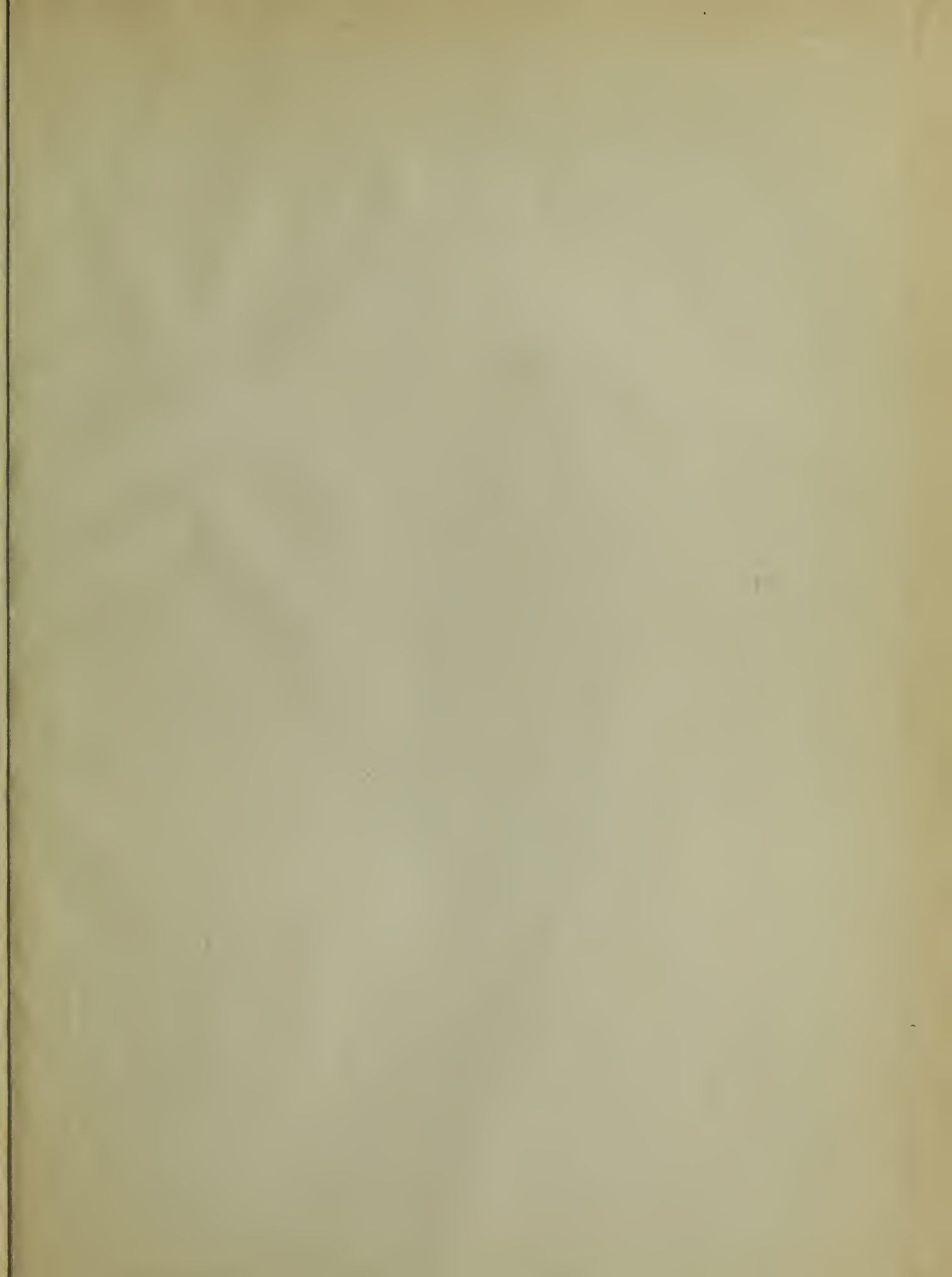
CORRELATION

-58

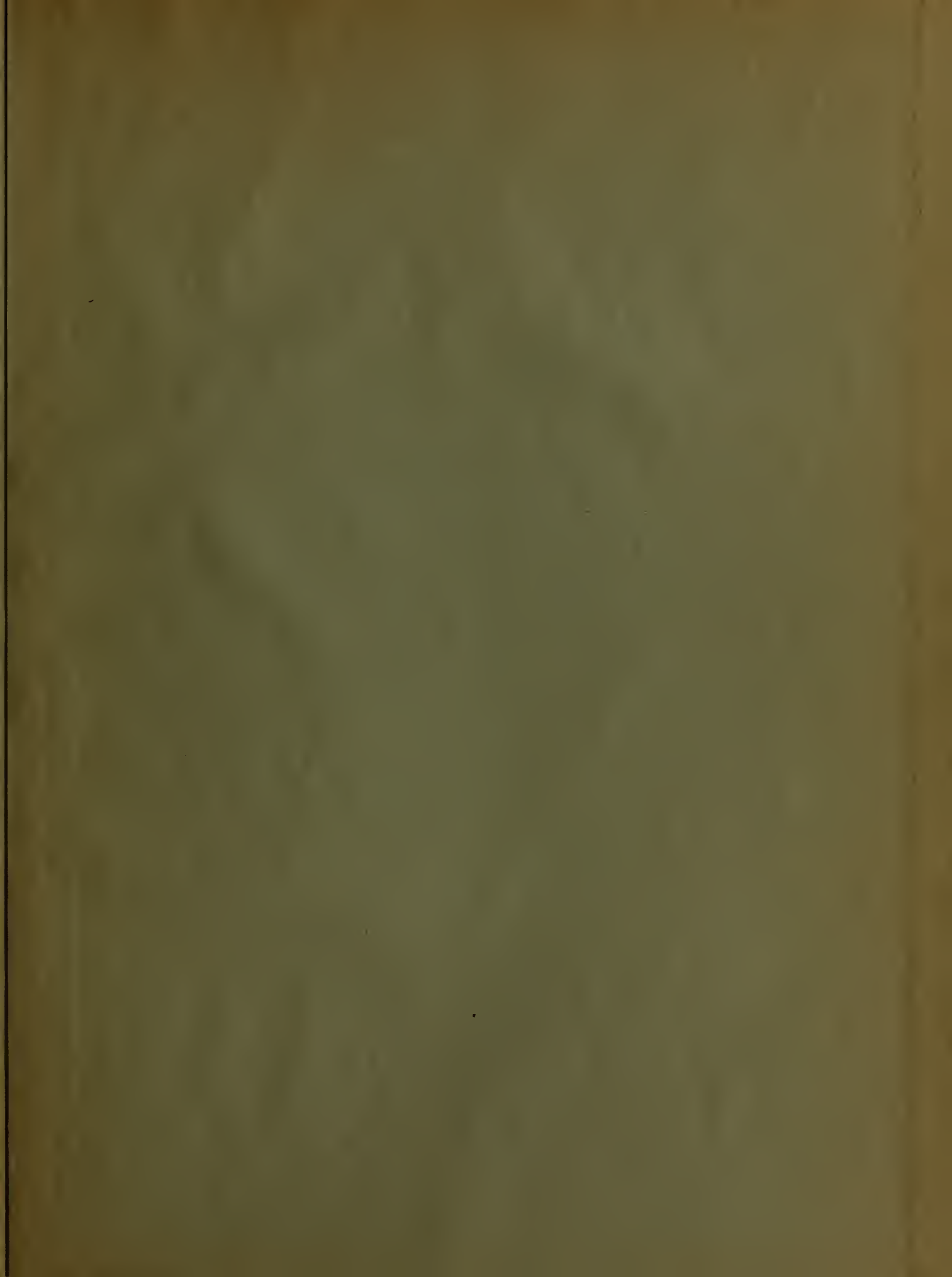
$$\frac{20 \times 10.21 \times 8.61}{-58} = - .03$$

Geological Survey

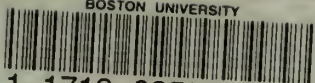
Station	Elevation	Latitude	Longitude	Remarks	
				1	2
1	100	30	100	100	100
2	100	30	100	100	100
3	100	30	100	100	100
4	100	30	100	100	100
5	100	30	100	100	100
6	100	30	100	100	100
7	100	30	100	100	100
8	100	30	100	100	100
9	100	30	100	100	100
10	100	30	100	100	100
11	100	30	100	100	100
12	100	30	100	100	100
13	100	30	100	100	100
14	100	30	100	100	100
15	100	30	100	100	100
16	100	30	100	100	100
17	100	30	100	100	100
18	100	30	100	100	100
19	100	30	100	100	100
20	100	30	100	100	100
21	100	30	100	100	100
22	100	30	100	100	100
23	100	30	100	100	100
24	100	30	100	100	100
25	100	30	100	100	100
26	100	30	100	100	100
27	100	30	100	100	100
28	100	30	100	100	100
29	100	30	100	100	100
30	100	30	100	100	100
31	100	30	100	100	100
32	100	30	100	100	100
33	100	30	100	100	100
34	100	30	100	100	100
35	100	30	100	100	100
36	100	30	100	100	100
37	100	30	100	100	100
38	100	30	100	100	100
39	100	30	100	100	100
40	100	30	100	100	100
41	100	30	100	100	100
42	100	30	100	100	100
43	100	30	100	100	100
44	100	30	100	100	100
45	100	30	100	100	100
46	100	30	100	100	100
47	100	30	100	100	100
48	100	30	100	100	100
49	100	30	100	100	100
50	100	30	100	100	100
51	100	30	100	100	100
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62	100	30	100	100	100
63	100	30	100	100	100
64	100	30	100	100	100
65	100	30	100	100	100
66	100	30	100	100	100
67	100	30	100	100	100
68	100	30	100	100	100
69	100	30	100	100	100
70	100	30	100	100	100
71	100	30	100	100	100
72	100	30	100	100	100
73	100	30	100	100	100
74	100	30	100	100	100
75	100	30	100	100	100
76	100	30	100	100	100
77	100	30	100	100	100
78	100	30	100	100	100
79	100	30	100	100	100
80	100	30	100	100	100
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83	100	30	100	100	100
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86	100	30	100	100	100
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91	100	30	100	100	100
92	100	30	100	100	100
93	100	30	100	100	100
94	100	30	100	100	100
95	100	30	100	100	100
96	100	30	100	100	100
97	100	30	100	100	100
98	100	30	100	100	100
99	100	30	100	100	100
100	100	30	100	100	100







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